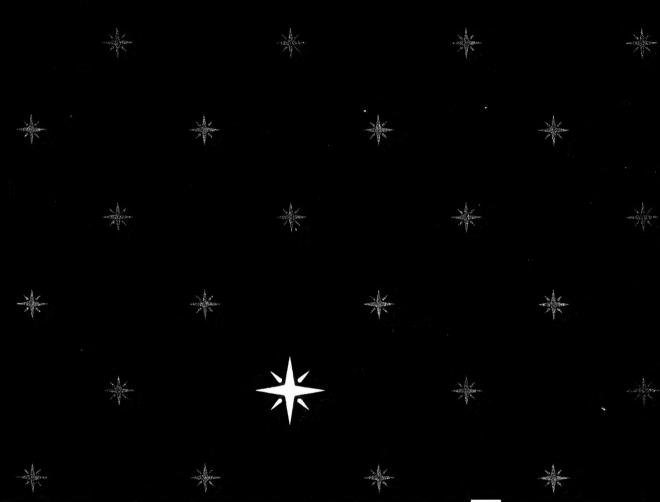
SERVICE MANUAL

PM-94



maramiz.

model PM-94



MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound.

Only **original MARANTZ parts** can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:

Parts can be ordered either by mail or by telex. In both cases, correct part number has to be specified. If you order by mail. fulfil MARANTZ order forms.

The following information must be supplied to eliminate delays in processing your order:

- 1. Complete address
- 2. Complete part numbers and quanties required
- 3. Description of parts
- 4. Model number for which part is required
- 5. Way of shipment
- Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

TECHNICAL ASSISTANCE

Should you require any other technical support, do not hesitate to contact the Technical Department of P.M.A. MARANTZ INTERNATIONAL

Quality & Service Dept. 80. Rue des Deux Gares.

B-1070 Brussels

Belgium

Phone: 02/525.70.22 or 525.70.23

Telefax: 02/525.6160 Telex: 23550 OR

61511 (PHEMB) routing: BELDMZT

PARTS ORDERING

Parts may be ordered at the following addresses:

AUSTRIA HORNYPHON Vertriebsgesellschaft GmbH Wienerbergstrasse 1 A 1101 Wien Austria Telex: 132.332

AUSTRALIA MARANTZ AUSTRALIA PTY., Ltd. 19 Chard Road Brookvale, NSW 2100 Australia Telex: 24121

BELGIUM SVD DIVISION MARANTZ Industrialaan 1 1720 Groot-Bijgaarden Belgium Telex: 24466

CHILE MARANTZ DIVISION OF PHILIPS S.A. AV. Santa Maria, 0760 Casilla 2687 Santiago Telex: 240.239

DENMARK
MARANTZ
DIVISION OF PHILIPS
SERVICE A/S
Prags Boulevard 80
Postbox 1919
DK-2300 København S
Denmark
Telex: 31201

e following addresses: FINLAND

MARANTZ DIVISION OF OY PHILIPS Ab Kaivokatu 8 00100 Helsinki Finland Telex: 124811

FRANCE
MARANTZ FRANCE
4 Rue Bernard Palissy
92600 Asnières
France
Telex: 611651

GERMANY MARANTZ GERMANY GmbH Max-Planck-Strasse 22 6072 Dreleich 1 Germany Telex: 529821

THE NETHERLANDS Elpro b.v. De Limiet 3 4131 NR Vianen The Netherlands Telex: 47679

NORWAY MARANTZ DIVISION OF PHILIPS A/S Sandstuveien 40 Oslo 6 Norway Telex: 72640 GREAT BRITAIN
MARANTZ AUDIO U.K. Ltd
Unit 15/16
Saxon Way Industrial Estate
Moor Lane
Harmondsworth UB7 OLW
Great Britain
Telex: 935196

GREECE SHERTON ELECTRONICS S.A. P.O.Box 21025 Hippocratus Street 188 Athens 11471 Greece Telex: 216.795

JAPAN MARANTZ JAPAN, Inc. 35-1, 7-chome, Sagamiono Sagamihara-shi, Kanagawa Jaoan

KUWAIT
AL ALAMIAH ELECTRONICS
Ussama Building
Fahd al Saleem Street
P.O.Box 23781
Safat-Kuwait
Telex: 22694

ITALY MARANTZ ITALIANA S.P.A. Via Chiese, 74 20126 Milano Italy SAUDI ARABIA AL ALAMIAH ELECTRONICS P.O. Box 5954 University Street Riyadh 11432 Saudi Arabia Telex: 201530

SOUTH AFRICA MARANTZ DIVISION OF PHILIPS S.A. Rainer House Ove Street, 10 Doornfontein Johannesburg Telex: 483.456

SPAIN PHONO S.A. Ignacio Iglesias 10 Badalona (Barcelona) Spain Telex: 59355

SWEDEN MARANTZ DIVISION OF PHILIPS Försäljning AB Tegeluddsvägen 1 S-115 84 Stockholm Sweden Telex: 14060 SWITZERLAND DYNAVOX ELECTRONICS Route de Villars 105 1701 Fribourg Switzerland Telex: 942377

TURKEY DOGRUOL Ltd. I.M.C. 6 Blok N°6310 Unkapani Istanbul Turkey Telex: 22085

MALTA CACHIA & GALEA Republic Street, 68D Valetta Telex: 1682

U.S.A. MARANTZ COMPANY, Inc. National Service Department P.O.Box 577 Chatsworth, CA 913 11 U.S.A.

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

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How to use this service manual

- The "Common parts" which Marantz Japan, Inc. has established are eliminated from this service manual.
- These "Common parts" are applied to all models in the service manuals arranged and issued by MJI.
- To indicate clearly the common parts in the schematic diagram, a line is drawn above or under the Ref. Desig. No. of applicable parts.
- "Common parts" can be supplied from the Marantz service center as ever.
 In case of ordering, please establish the parts number of 10 figures following the procedure mentioned in this service manual "How to establish the parts number for common parts".

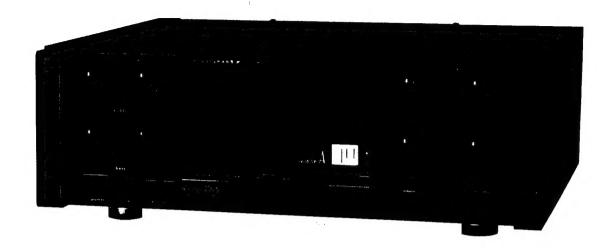
(NOTE)

When you order parts to the Marantz parts center, please take notice of the following points.

- 1) Please correctly write the parts number of 10 figures following the rule.
- Since ordering parts by the Ref. Desig. No. or ratings indicated in the schematic diagram
 does not satisfy the above conditions, the Marantz parts supply system does not work
 properly.

As this case is apt to cause a trouble, please pay attention to it.

MODEL PM-94 STEREO AMPLIFIER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz Model PM-94 Stereo Amplifier.

Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model PM-94 consists of the following units. Each unit mounted on a printed circuit board is discribed within the square enclosed by a bold dotted line on the circuit diagram.

1.	Tone (L)	mounted	on	P.W.	Board	PEO1
2.	Tone (R)					
3.						
4.						
	Balance etc	mounted	on	P.W.	Board	PK OO
5.	Power Transistor					
6.	Comparator/Protec/				500.0	
	Supply	mounted	on	PW	Roard	PNO
7.		mounted	On	PW	Board	PN50
8.	Main Volume	mounted	on	P.W	Board	POOR
9.			٠		Dourd	. 400
	Relay	mounted	On	P W	Roard	PROO
10.	Phono/Speaker	mounted	011		Doard	11100
	Selector	mounted	On	PW	Roard	PRSO
11.	Tone/Tape 1. 2/		011		Doard	, 1130
	VCR/Muting	mounted	on	PW	Roard	PTOO
12.	Function Selector					
	Tape Play/	mounted	011		Doard	
	Rce/VCR	mounted	on	P W	Board	DW(TI)
14.	Function LED	mounted	on	P W	Poard	PV(BO
15.	Tape/VCR/Muting	mounted	UII		Doard	F 1 000
	Indicator	mounted	00	D IAI	Doord	DZO O
16.	Phono Amp/	mounted	UII		buaru	7200
	Input Selector	mounted		D M	Daniel	D404
17	Power Amp (L)					
10.	Power Amp (R)	mounted	on	r.w.	Board	r/U-U

4. ADJUSTMENT PROCEDURE

1. Adjustment of output offset voltage

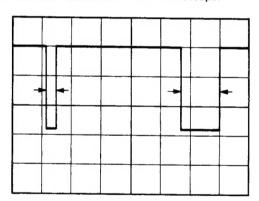
- Remove the MAIN-IN and PRE-OUT plugs, and connect a digital voltmeter set to the DC range to the speaker terminals with no signal and no load on the unit.
- Adjust R622 for L-ch and R722 for R-ch until the indication on the digital voltmeter is ±10 mV.

2. Idling adjustment

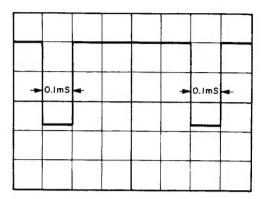
- With no signal or load on the unit, short TP-1 and TP-3 on the P.W. Board (PN00).
- Connect a digital voltmeter set to the DC range between J607 and J707 and adjust J643 and J743 for 36 mV.
- 3) Remove the short between TP-1 and TP-3, and R642 and R742 so that the voltage between J607 and J707 is 180 mV.

3. Adjustment of quarter "A"

- Connect a DC voltmeter between the emitter and base of QL07 for L-ch. (The meter range is greater than 100 V, with the polarity of the emitter (+) and base (-).)
- Connect the oscilloscope between TP-1 and TP-2 on the P.W. Board, and monitor the waveforms at TP-2 with TP-1 as the reference.
- Connect an 8 ohm load to each of the speaker terminals, and input a 1 kHz to the L channel MAIN-IN.
 Adjust the input level so that the load on L-ch gives output of 17 V.
- 4) Rotate RN40 (RN41) on the P.W. Board (PN00) and monitor the waveforms on the oscilloscope.



 Adjust RN42 (RN43) so that the pulse width is the same. Adjust RN40 (RN41) again to make the pulse width 0.1 ms. Confirm that the voltage at the emitter of Q107 is 63 V.



- 7) Lower the input signal and confirm that the voltage at the speaker terminal is 16 V - 16.5 V and the voltage at the emitter of QL07 is 29 V at the point where the pulse disappears.
- 8) Next, connect the DC voltmeter between the emitter and base of QL08 for R-ch. (The meter range is greater than 100 V, with the polarity of the emitter (-) and base (+).)
- Input a 1 kHz to the R channel MAIN-IN. Adjust the input level so that the load on R-ch gives output of 17 V.
- 10) Adjust items 4 to 7 in the same manner as L-ch. The adjustment locations are those shown in parenthesis.

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model PM-94 Stereo Amplifier.

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
AC VTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DC VTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer (0 ~ 140V AC, 10A)	Adjust level of primery power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

3. VOLTAGE CONVERSION

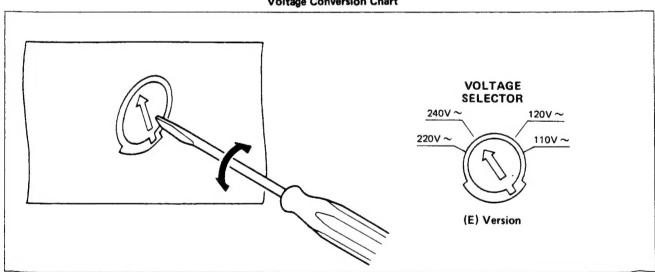
• EUROPEAN MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION

DISCONNECT POWER SUPPLY CORD FROM AC **OUTLET BEFORE CONVERTING VOLTAGE.**

Voltage Conversion Chart

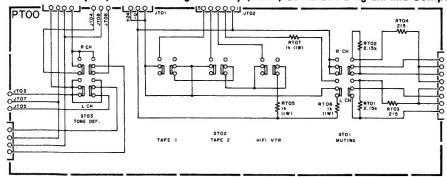


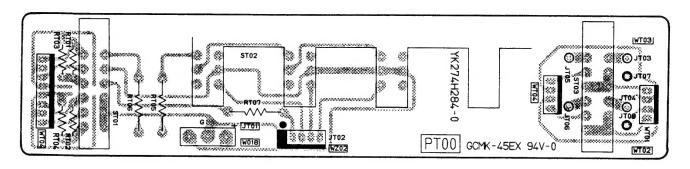
Note on safety: Symbol A Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol $\boldsymbol{\triangle}$. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

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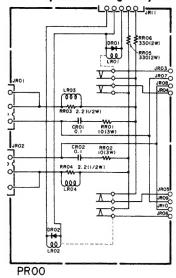
6. SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

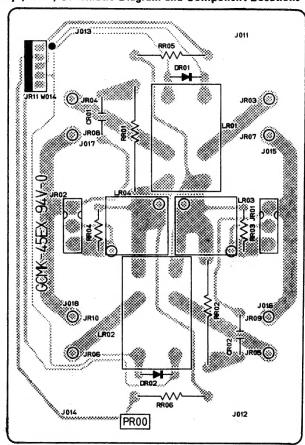
6.1 Tone/Tape 1, 2/VCR/Muting Assembly (PT00) Schematic Diagram and Component Locations



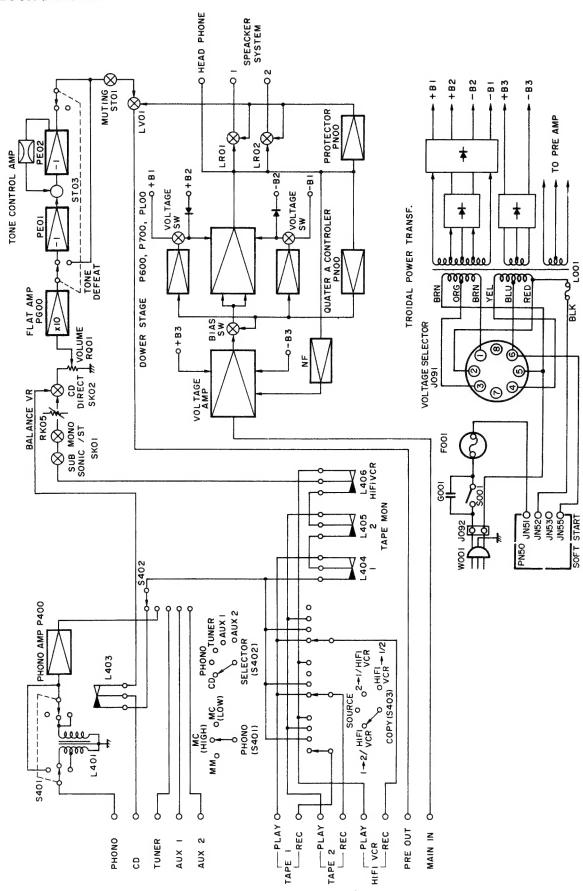


6.2 Speaker Muting Pelay Assembly (PR00) Schematic Diagram and Component Locations





5. BLOCK DIAGRAM

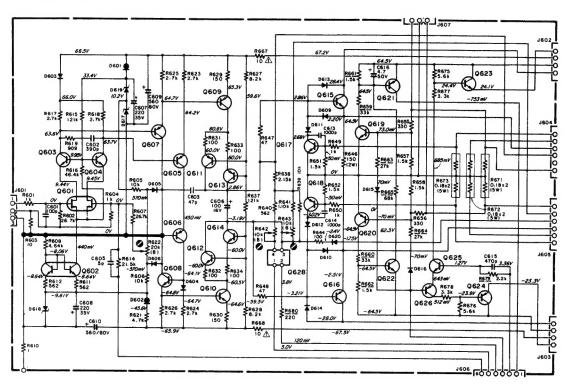


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6.6 Power Amp.(L) Assembly (P600) Schematic Diagram and Component Locations

P600 (CH-L)

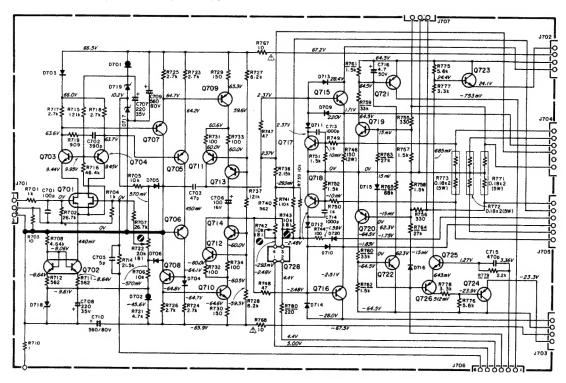
(CLASS A)



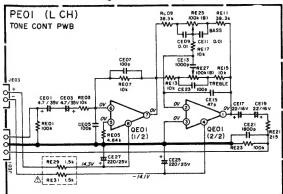
6.7 Power Amp.(R) Assembly (P700) Schematic Diagram and Component Locations

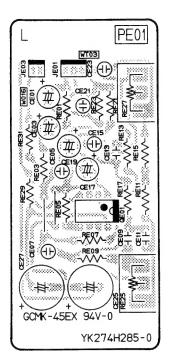
P700(CH-R)

(CLASS B)

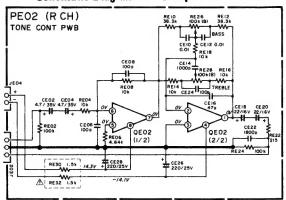


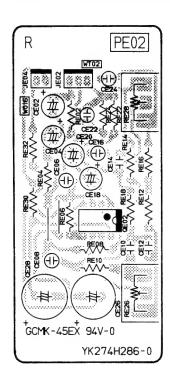
6.3 Tone (L) Assembly (PE01) Schematic Diagram and Component Locations



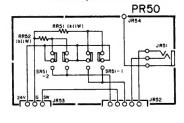


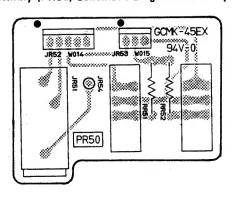
6.4 Tone (R) Assembly (PE02) Schematic Diagram and Component Locations

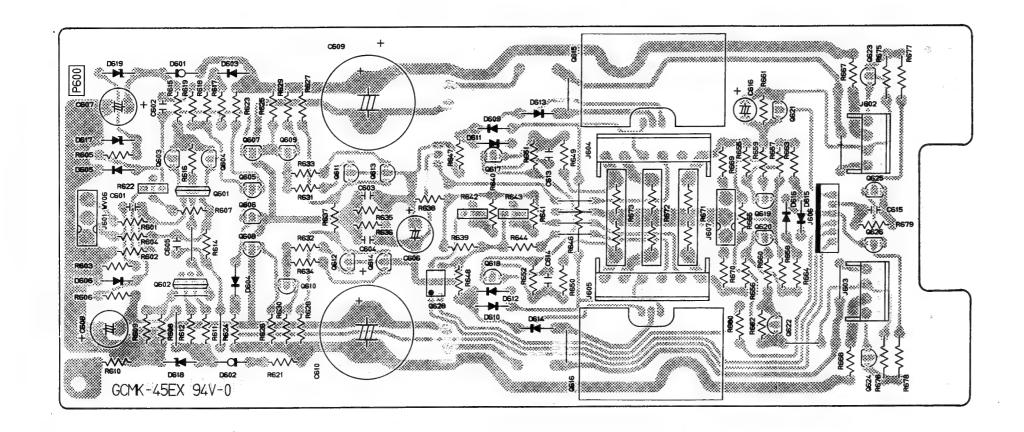


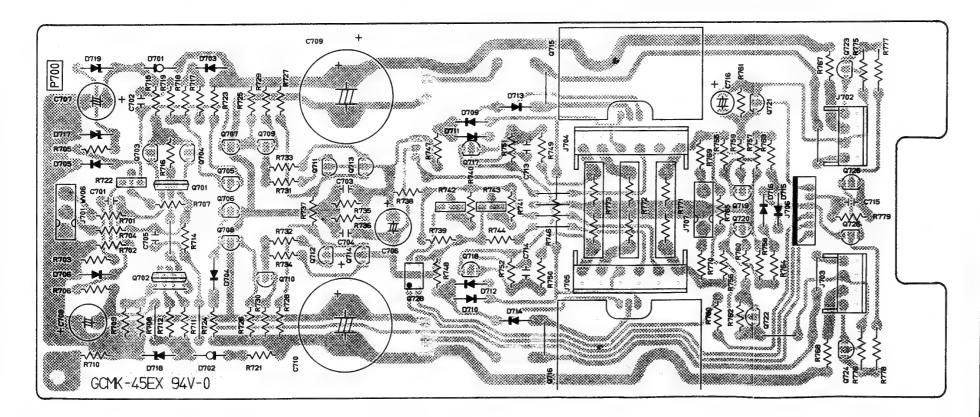


6.5 Phone/Speaker Selector Assembly (PR50) Schematic Diagram and Component Locations



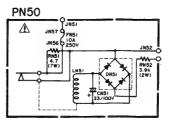


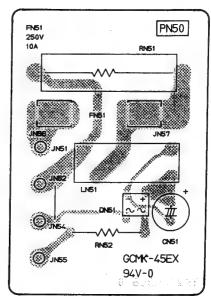




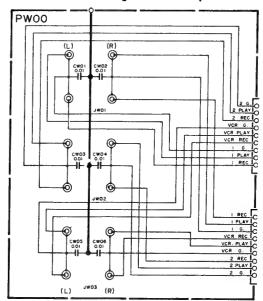
M 6150

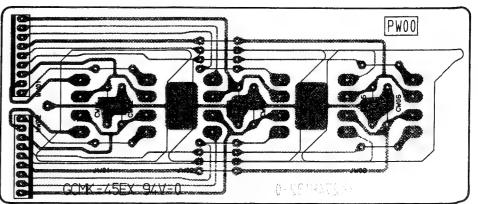
6.8 Soft Start Assembly (PN50) Schembly Diagram and Component Locations





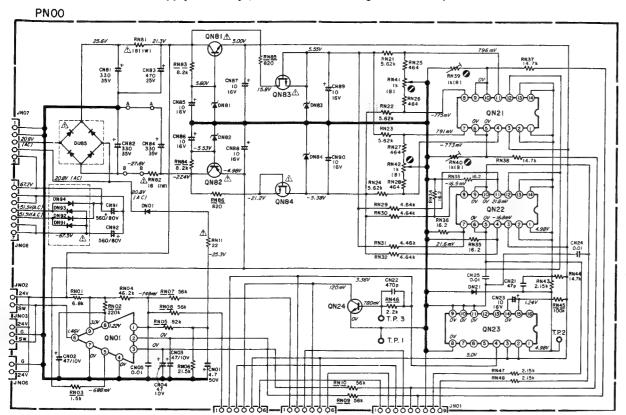
6.9 Tape Play/Rec/VCR Assembly (PW00) Schematic Diagram and Component Locations

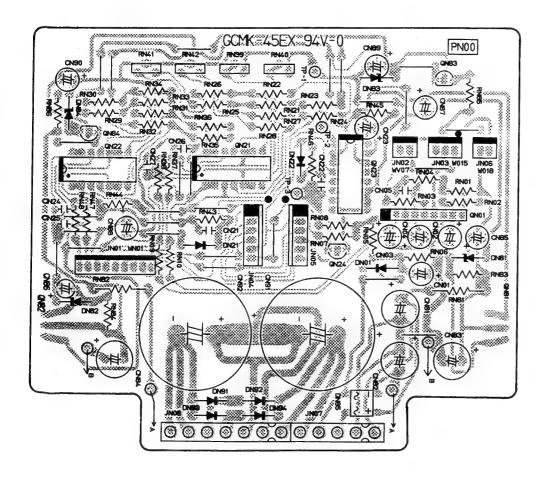




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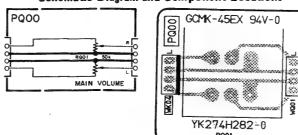
6.10 Comparator/Protec/Supply Assembly (PN00) Schematic Diagram and Component Locations



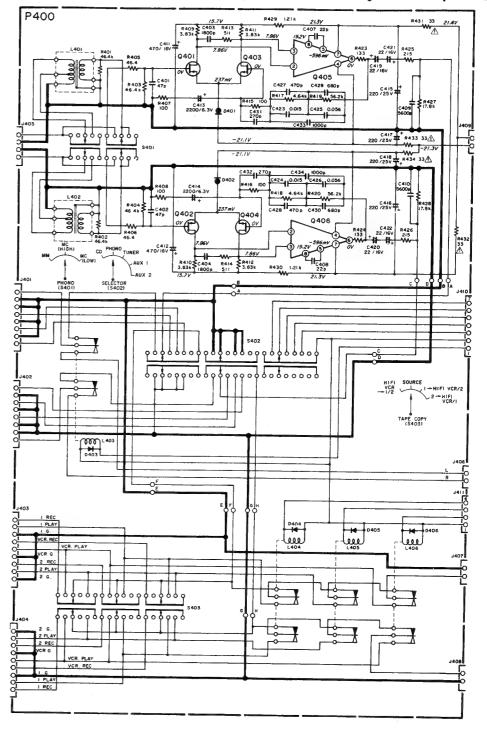


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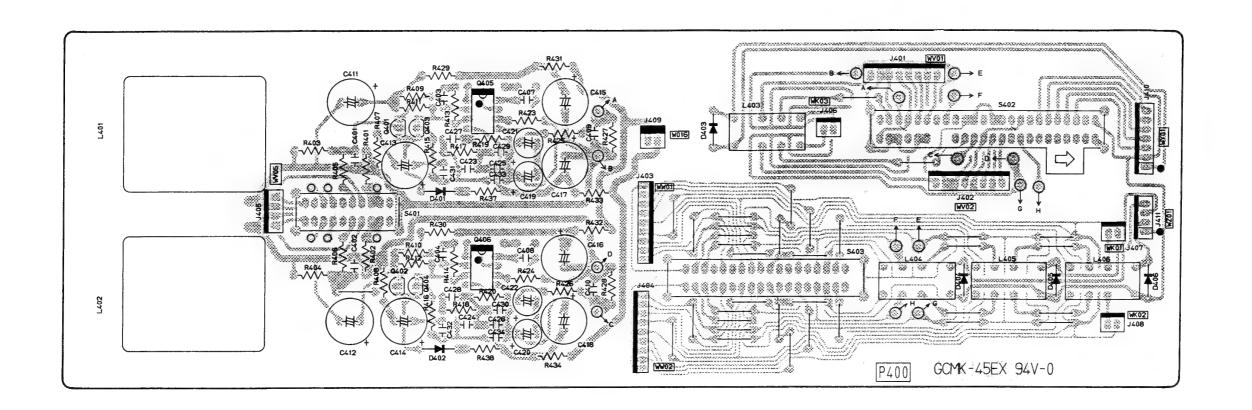
6.11 Main Volume Assembly (PQ00)
Schematic Diagram and Component Locations



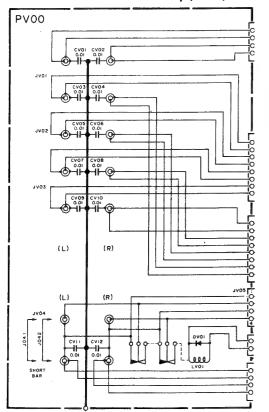
6.12 Phono Amp/Input Selector Assembly (P400) Schematic Diagram and Component Location

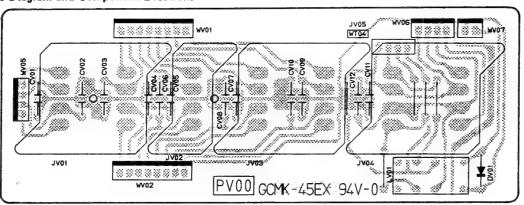


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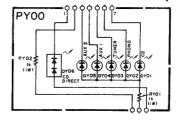


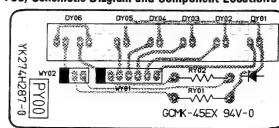
6.13 Function Selector Assembly (PV00) Schematic Diagram and Component Locations



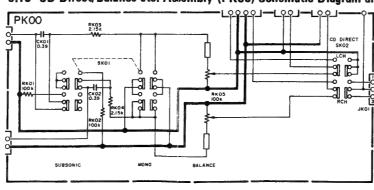


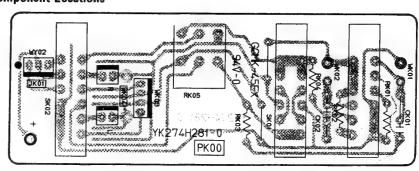
6.14 Function LED Assembly (PY00) Schematic Diagram and Component Locations





6.15 CD Direct/Balance etc. Assembly (PK00) Schematic Diagram and Component Locations



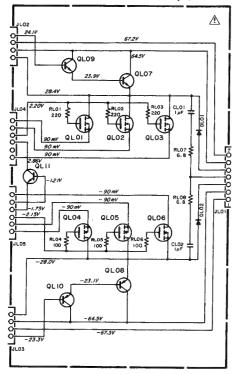


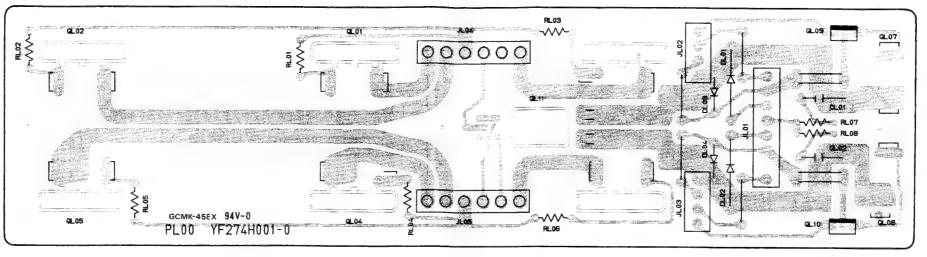
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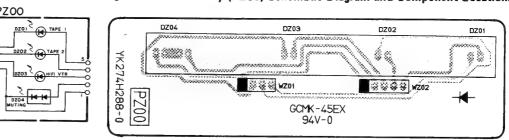
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6.16 Power Transistor Assembly (PL00) Schematic Diagram and Component Locations

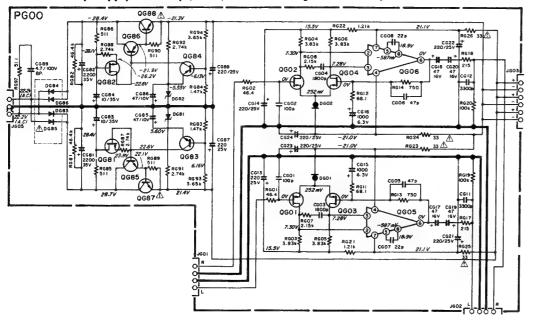




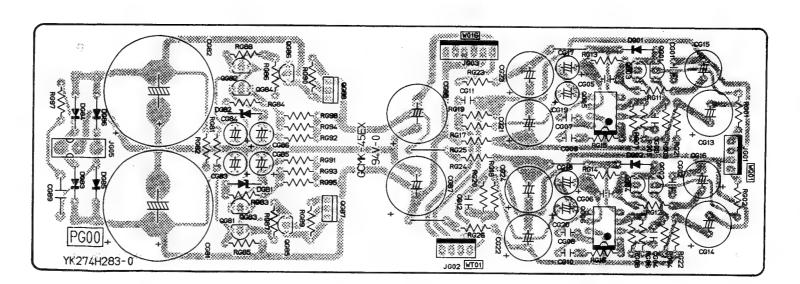
6.18 Tape/VCR/Muting Indicator Assembly (PZ00) Schematic Diagram and Component Locations



6.17 Flat Amp/Supply Assembly (PG00) Schematic Diagram and Component Locations

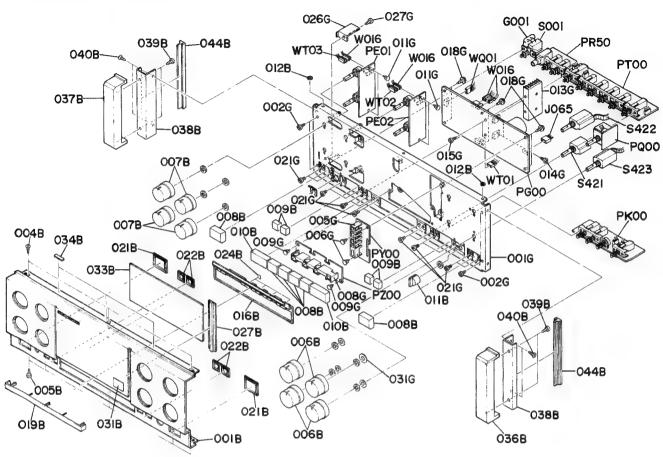


14



7. EXPLODED VIEW AND PARTS LIST

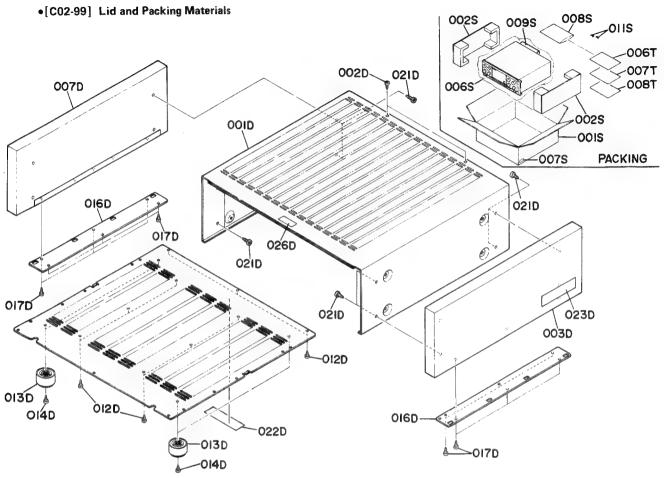
•[C01-99] Front Panel and Chassis



REF. DESIG.	PART NO.	DESCRIPTION
A 001B 016B 019B 021B 022B 027B 031B 033B 004B 005B 006B 007B 008B 010B 011B 011B 012B 024B	274H248400 274H248510 274H259510 274H053010 242H259120 242H259130 274H158010 274H158010 274H120030 51500308M0 51280306M0 242H154210 242H154210 242H270110 242H270110 242H270110 242H270110 263H154130 2232118300 274H151010	Front Panel Assembly Front Panel, K Bushing, K Cover, Tape Monitor Bushing, Power/CD Direct Bushing, SPK./Subsonic/Mono Window, Function Badge, MOS FET Insulator F.H. Taptite Screw F3 x 8 B.H. Tapped Screw B3 x 6 Knob, Volume/Function Knob, Tone Button, Power/CD/Tape Monitor Button, SPK./Subsonic/Mono Button, Tone/Muting Knob, Balance Spacer Introducer
034B 036B 037B 038B 039B 040B 044B	032C056010 274H063010 274H063020 274H160050 51280308M0 51280308M0 274H067010	Buffer Escutcheon, Side (R) Escutcheon, Side (L) Bracket, Side Escutcheon B.H. Tapped Screw 83 x 8 B.H. Tapped Screw B3 x 8 Cap, Side

REF. DESIG.	PART NO.	DESCRIPTION
001G	274H105020	Chassis, Front
002G	51280308M0	B.H. Tapped Screw B3 x 8
005G	274H271010	Holder, Selector LED
006G	2276005050	Clamper, Selector P.W. Board
008G	274H271020	Holder, Tape Monitor LED
009G	2276005050	Clamper, Tape Monitor P.W. Board
011G	2276005050	Clamper, Tone P.W. Board
013G	274H267030	Heatsink, Front P.W. Board
014G	51280308M0	B.H. Tapped Screw B3 x 8
015G	51280306M0	B.H. Tapped Screw B3 x 6
018G	51260306M0	B.T. Screw B3 x 6
021G	51100306M0	B.H.M. Screw B3 x 6
026G	274H109030	Shield, Power Switch
027G	51280308M0	B.H. Tapped Screw B3 x 8
031G	274H012010	Washer, Volume
∆ G001	BF10400060	Cap. Composite
∆ S001	SP01010820	Push Switch, Power
J065	YJ06001040	Jack, 3P
W016	YB00560030	Connective Cord
WT01	YB00160230	Connective Cord, 4P
WT02	YB00220210	Connective Cord, 3P
WT03	YB00300920	Connective Cord, 3P
WQ01	YB00430020	Connective Cord, 4P
S421	SR04030380	Rotary Switch Assembly, Phono
S422	SR06050230	Rotary Switch Assembly, Selector
S423	SR06040220	Rotary Switch Assembly, Tape COPY

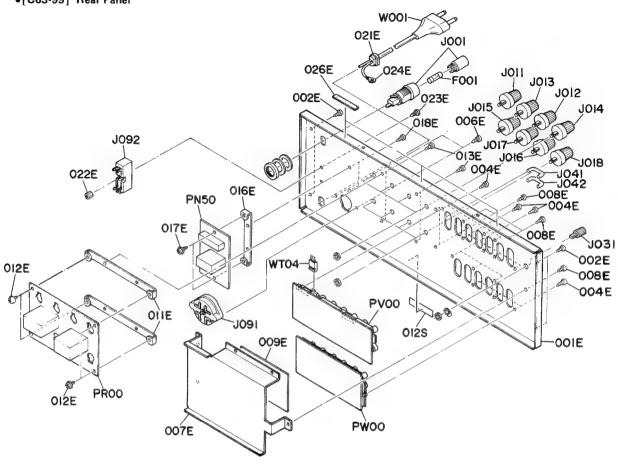
M6.54



REF. DESIG.	PART NO.	DESCRIPT	ION
001D 002D 003D 007D 011D 012D 013D 014D 016D 017D 021D 022D 023D 026D	274H257010 274H010010 274H249530 274H249540 274H257020 51280308M0 238H057010 51280412M0 274H160070 51280308M0 51280412M0 2911861110 2911861140 222H861020	Lid, Top Cover Screw Side Panel, Wood (K) Side Panel, Wood (K) Lid, Bottom Cover B.H. Tapped Screw Leg B.H. Tapped Screw Bracket B.H. Tapped Screw Label Label Label, Caution	

REF. DESIG.	PART NO.	DESCRIPTION
006S 007S 008S 009S 011S 006T 007T	274H801020 274H809520 9091111030 9526019060 9012540010 2864804010 YQ01000020 274H851310 274H856010	PACKING Packing Case Cushion, (K) Polyethylene Sheet Serial No. Card Polyethylene Bag Sleeve Shote Plug User Manual User Manual Spec. Circuit Diagram

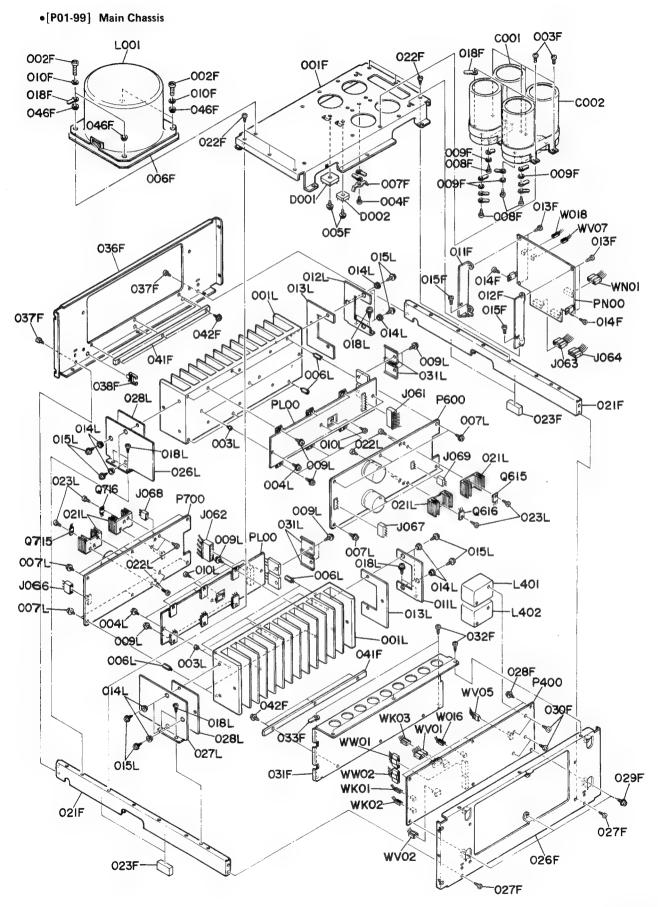




DESIG.	ON
OO1E 274H250020 Rear Panel OO2E 51280308M0 B.H. Tapped Screw OO6E 51280308M0 B.H. Tapped Screw OO6E 51280308M0 B.H. Tapped Screw OO7E 274H109010 Shield OO8E 51280308M0 B.H. Tapped Screw OO9E 274H120020 Insulator O11E 274H160030 Bracket, Speaker P.W. B F. Washer Screw O13E 51100306M0 Bracket, Soft Start P.W.	B3 x 8 B3 x 8 B3 x 8 B3 x 8 oard F3 x 6 B3 x 6 Board F3 x 6 B3 x 6

REF, DESIG.	PART NO.	DESCRIPTION
F001 J001 J011 J012 J013 J014 J015 J016 J017 J018 J031	FS10500800 YJ08000290 YT01010100 YT01010110 YT01010110 YT01010100 YT01010110 YT01010110 YT01010110 YT01010110 YT01010110	Fuse, 5A Jack, Fuse Holder Terminal, Speaker 1; CH-L(+) Terminal, Speaker 1; CH-R(+) Terminal, Speaker 1; CH-L(-) Terminal, Speaker 1; CH-R(-) Terminal, Speaker 2; CH-L(+) Terminal, Speaker 2; CH-R(+) Terminal, Speaker 2; CH-L(-) Terminal, Speaker 2; CH-R(-) Terminal, Speaker 2; CH-R(-) Terminal, Speaker 2; CH-R(-)
J041 J042 J091 J092 AW001	YQ01000070 YQ01000070 BY05080050 YL09040020 YC01900090 YB00740010	Shote Plug Shote Plug Voltage Selector Terminal AC Power Cord Connective Cord

M6156



REF. DESIG.	PART NO.	DESCRIPTION	
001F	274H105010	Chassis, Main	
002F	51280412M0	B.H Tapped Screw B4 x 1	12
003F	51280406M0	B.H. Tapped Screw B4 x 6	_
004F	51280412M0	B.H. Tapped Screw B4 x 1	
005F			
	51260312M0	B.T. Screw B3 x 1	12
006F	274H120060	Insulator, Power Transformer	
007F	274H123010	Contactor, Earth	
008F	51100408M0	B.H.M. Screw B4 x 8	3
009F	274H118010	Spacer	
010F	54020401M0	Flat Washer, P.	
011F	274H160010	Bracket, (L)	
012F	274H160020	Bracket, (R)	
013F	51260306M0	B.T. Screw B3 x 6	3
014F			
	51280308M0	B.H. Tapped Screw B3 x 8	
015F	51280308M0	B.H. Tapped Screw B3 x 8	3
018F	4220005040	Clamper	
021F	274H126010	Stav	
022F	51280406M0	B.H Tapped Screw B4 x 6	3
023F	100H056010		,
023F	274H105030	Buffer Chassis, Side (R)	
027F	51280308M0	B.H. Tapped Screw B3 x 8	
028F	2276005050	Clamper, Phono Amp P.W. Boar	ď
029F	51260306M0	B.T. Screw B3 x 6	
030F	51100205E0	B.H.M. Screw B2 x 5	
031F	274H109020	Shield, Side	•
032F	51280308M0	B.H. Tapped Screw B3 x 8	5
033F	62030049W0	Lug, Earth	
036F	274H105040	Chassis, Side (L)	
037F	51280308M0	B.H. Tapped Screw B3 x 8	3
038F	274H005010	Clamper	-
041F	274H056010	Buffer	
042F			,
042F 046F	51260308M0 203H259020	B.T. Screw B3 x 8 Bushing	•
001 L	274H267010	Heatsink, Main	
003 L	274H101010	Support, Power Transistor P.W.	Board
004 L	51480306M0	F. Washer Screw F3 x 6	
006 L	274H101020	Support, Power Amp P.W. Board	
007L	51480306M0	F. Washer Screw F3 x 6	
		1	
009L	51260312M0	B.T. Screw B3 x 1	_
010L	51280308M0	B.H. Tapped Screw B3 x 8	3
011L	274H104010	Retainer, 1; Heatsink	
012L	274H104020	Retainer, 2; Heatsink	
013 L	274H120010	Insulator, 1; Heatsink	
014L	223H259020	Bushing	
015L			
	51260312M0	B.T. Screw B3 x 1	_
018L	51280308M0	B.H. Tapped Screw B3 x 8	3
021 L	274H267020	Heatsink, Transistor	
022L	51280308M0	B.H. Tapped Screw B3 x 8	3
023 L	51280308M0	B.H. Tapped Screw B3 x 8	
026 L			,
	274H104110	Retainer, 3; Heatsink	
027 L	274H104120	Retainer, 4; Heatsink	
028 L	274H120020	Insulator, 2; Heatsink	
031 L	274H053020	Cover, Transistor	
		//	

Elect Cap. 18000 μF 80\ Elect Cap. 27000 μF 50\ Elect Cap. 27000 μF 27000
D002 HE20015290 Diode S4VB-20 1061
1062
2615 HT326823A0 Transistor 2SC2682(P, Q, R) 2616 HT111423A0 Transistor 2SA1142(P, Q, R) 2715 HT326823A0 Transistor 2SC2682(P, Q, R) 2716 HT111423A0 Transistor 2SA1142(P, Q, R) V016 YB00560030 Connective Cord
2616 HT111423A0 Transistor 2SA1142(P, Q, R) 2715 HT326823A0 Transistor 2SC2682(P, Q, R) 2716 HT111423A0 Transistor 2SC1682(P, Q, R) Transistor 2SA1142(P, Q, R) V016 YB00560030 Connective Cord
\text{V018} \text{ YB00600310} \text{ Connective Cord, 2P} \\ VK01 \text{ YB00280310} \text{ Connective Cord, 2P} \\ VK02 \text{ YB00240100} \text{ Connective Cord, 4P} \\ VV01 \text{ YB00220190} \text{ Connective Cord, 9P} \\ VV02 \text{ YB00480060} \text{ Connective Cord, 8P} \\ VV05 \text{ YB00140200} \text{ Connective Cord, 4P} \\ VV07 \text{ YB00180240} \text{ Connective Cord, 2P} \end{array}
VW01 YB00340050 Connective Cord, 9P VW02 YB00280300 Connective Cord, 9P
TI11606010 Input Transformer, CH-L Input Transformer, CH-R

8. ELECTRICAL PARTS LIST

AS	SSIGNMENT OF COMMON PARTS CODES.
RES <u>R***</u> : (1) <u>R***</u> : (2)	SISTOR GD05 140, Carbon film fixed resistor, ±5%, 1/4W GD05 160, Carbon film fixed resistor, ±5%, 1/6W ①—Resistance value
Examples (i)	Resistance value 0.1Ω 001 10Ω 100 $1k\Omega$ 102 $100k\Omega$ 104 0.5Ω 005 18Ω 180 $2.7k\Omega$ 272 $680k\Omega$ 684 1Ω 010 100Ω 101 $10k\Omega$ 103 $1Mk\Omega$ 105 6.8Ω 068 390Ω 391 $22k\Omega$
(Note)	Please distinguish 1/4W from 1/6W by the shape of parts used actually.
<u>C***</u> : CEF (1)	RAMIC CAP. DD1370, Ceramic condenser Disc type Temp. coeff. P350 ~ N1000, 50V
Examples (i)	Tolerance (Capacity deviation) ±0.25pF0 ±0.5pF1
* Tolerand	±5%5 e of COMMON PARTS handled here are as follows: 0.5pF ~ 5pF±0.25pF 6pF ~ 10pF±0.5pF 12pF ~ 560pF±5% Capacity value 0.5pF005 3pF030 100pF101 1pF010 10pF100 220pF221 1.5pF015 47pF470 560pF561
C***: CEF (1)	BAMIC CAP. DK16 300, Disc type Temp. chara. 2B4, 50V
	Capacity value
Example ②	Capacity value 100pF101 1000pF102 10000pF103 470pF471 2200pF222
(1)	ECTROLY CAP. (#), FILM CAP. (†) EA10, Electrolytic condenser One-way lead type, Tolerance ±20% Dielectric strength Capacity value
Examples 1	Capacity value $\begin{array}{ccccc} 0.1\mu F \dots 104 & 4.7\mu F \dots 475 & 100\mu F \dots 107 \\ 0.33\mu F \dots 334 & 10\mu F \dots 106 & 330\mu F \dots 337 \\ 1\mu F \dots 105 & 22\mu F \dots 226 & 1100\mu F \dots 108 \\ & 2200\mu F \dots 228 \end{array}$
2	Working voltage 6.3V 006 25V 025 10V 010 35V 035 16V 016 50V 050
(2)	DF15 350. Plastic film condenser One-way type, Mylar ±5% 50V Capacity value
Examples ①	Capacity value $0.001\mu\text{F} (1000\text{pF}) 102 0.1\mu\text{F} 104 0.0018\mu\text{F} 182 0.56\mu\text{F} 564 0.01\mu\text{F} 103 1\mu\text{F} 105 0.015\mu\text{F} 153 $

PART NO. DESCRIPTION		i ·				· · · · · · · · · · · · · · · · · · ·
P400	REF. DESIG.	PART NO.		DESCRIPT	TION	
ZZ274H8310					IPUT SI	ELECTOR
C401	P400		P.W. Board	Assembly	np/Inpu	t Selector
C402 DF56470520 Film Ham						
C403				•		
C404						
C407					-	
C408				•		
C409				•		
C410						
C411 OA47701650 Elect 470μF 16V C412 OA47701650 Elect 470μF 16V C413 OA22800610 Elect 2200μF 6.3V C414 OA22800610 Elect 2200μF 6.3V C415 OA22702550 Elect 220μF 25V C416 OA22702550 Elect 220μF 25V C417 OA22702550 Elect 220μF 25V C418 OA22702550 Elect 220μF 25V C419 EA22601660 Elect 22μF 16V C420 EA22601660 Elect 22μF 16V C421 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C423 OF15153520 Film 0.015μF ±5% 100V C424 OF15153520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 0.056μF ±5% 100V C428 DF55471520 Film 470pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C430 DF55271520 Film 680pF ±5% 125V C431 DF55271520 Film 680pF ±5% 125V C432 OF15102520 Film 680pF ±5% 125V C433 OF15102520 Film 680pF ±5% 125V Film 270pF ±5% 125V Film 270pF ±5% 125V Film 270pF ±5% 125V Film 1000pF ±5% 125V Film 1000pF ±5% 100V Film 1000pF ±5% 100V FO434 OF15102520 Film 1000pF ±5% 100V FO434 OF15102520 Film 1000pF ±5% 100V FO434 OF15102520 Film 1000pF ±5% 100V FO436 GM21446420 46.4KΩ R403 GM21446420 46.4KΩ R404 GM21446420 46.4KΩ R405 GM21446420 46.4KΩ R406 GM21446420 46.4KΩ R407 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R411 GM21438310 511Ω R412 GM21438310 511Ω R413 GM21446410 511Ω R414 GM21451100 511Ω R415 GM21410000 R416 GM21410000 100Ω R416 GM21446410 Film GM21446410 R418 GM21446110 Film GM21446410 R418 GM21446410 Film GM21446410 R418 GM21446410 Film GM21446410 R418 GM21446410 Film GM21446420 Film GM21446				•		
C412					> /0	
C414						
C415 OA22702550 Elect 220μF 25V C416 OA22702550 Elect 220μF 25V C417 OA22702550 Elect 220μF 25V C418 OA22702550 Elect 220μF 25V C419 EA22601660 Elect 22μF 16V C420 EA22601660 Elect 22μF 16V C421 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C424 OF15153520 Film 0.015μF ±5% 100V C424 OF15153520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55471520 Film 470pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 680pF ±5% 125V C431 DF55271520 Film 680pF ±5% 125V C432 OF15102520 Film 270pF ±5% 125V C433 OF15102520 Film 270pF ±5% 125V C434 OF15102520 Film 1000pF ±5% 100V P400-RESISTORS (All Resistors are ±2% and ½W) 46.4KΩ R405 GM21446420 46.4KΩ 46.4KΩ R406 GM21446420 46.4KΩ 46.4KΩ R406 GM21446420 A6.4KΩ A6.4KΩ A6.4KΩ GM21446430 A6.4KΩ A6.4K	C413	OA22800610	Elect	2200µF		6.3V
C416 OA22702550 Elect 220μF 25V C417 OA22702550 Elect 220μF 25V C418 OA22702550 Elect 220μF 25V C418 OA22702550 Elect 220μF 25V C419 EA22601660 Elect 22μF 16V C420 EA22601660 Elect 22μF 16V C421 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C423 OF15153520 Film 0.015μF ±5% 100V C424 OF15153520 Film 0.056μF ±5% 100V C425 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55471520 Film 470pF ±5% 125V C429 DF55681520 Film 680pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 680pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 1000pF ±5% 100V Film 1000pF ±5% 100V Film 1000pF ±5% 100V G44 GM21446420 FA04 GM21446420 FA05 GM21446420 FA06 GM21446420 FA06 GM21446400 FA06 GM21446400 FA07 GM21410000 FA08 GM21438310 S.83KΩ S.83	C414	OA22800610	Elect	2200µF		6.3V
C417 OA22702550 Elect 220μF 25V C418 OA22702550 Elect 220μF 25V C419 EA22601660 Elect 22μF 16V C420 EA22601660 Elect 22μF 16V C421 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C423 OF15153520 Film 0.015μF ±5% 100V C424 OF15153520 Film 0.056μF ±5% 100V C425 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55471520 Film 470pF ±5% 125V C429 DF55681520 Film 680pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 680pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C433 OF15102520 Film 1000pF ±5% 100V Film 1000pF ±5% 100V C434 OF15102520 Film 1000pF ±5% 100V Film	C415	OA22702550	Elect	220µF		25V
C418				220µF		25V
C419 EA22601660 Elect 22μF 16V C420 EA22601660 Elect 22μF 16V C421 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C423 OF15153520 Film 0.015μF ±5% 100V C424 OF15153520 Film 0.056μF ±5% 100V C425 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF556471520 Film 470pF ±5% 125V C428 DF55681520 Film 680pF ±5% 125V C431 DF55681520 Film 270pF ±5% 125V C431 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 1000pF ±5% 100V R403 GM21446420 46.4KΩ <td></td> <td></td> <td></td> <td>220µF</td> <td></td> <td>25V</td>				220µF		25V
C420 EA22601660 Elect 22μF 16V C421 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C423 OF15153520 Film 0.015μF ±5% 100V C424 OF15153520 Film 0.056μF ±5% 100V C425 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55681520 Film 470pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 1000pF ±5% 125V Film 270pF ±5% 125V Film 1000pF ±5% 100V <td< td=""><td></td><td></td><td></td><td>220µF</td><td></td><td>25V</td></td<>				220µF		25V
C421 EA22601660 Elect 22μF 16V C422 EA22601660 Elect 22μF 16V C423 OF15153520 Film 0.015μF ±5% 100V C424 OF15153520 Film 0.056μF ±5% 100V C425 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55471520 Film 470pF ±5% 125V C429 DF55681520 Film 680pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 680pF ±5% 125V C431 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C433 OF15102520 Film 1000pF ±5% 100V C434 OF15102520 Film 1000pF ±5% 100V P400-RESISTORS (All Resistors are ±2% and ¼W) 46.4KΩ R404 GM21446420 46.4KΩ R405 GM21446420 46.4KΩ R406 GM21446400 46.4KΩ R407 GM21410000 100Ω R408 GM21440000 100Ω R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 511Ω R413 GM21438310 511Ω R414 GM21451100 511Ω R415 GM21446410 4.64KΩ R416 GM21446410 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21446610 4.64KΩ R419 GM2145620 56.2KΩ						
C422 EA22601660 Elect 22μF 16V C423 OF15153520 Film 0.015μF ±5% 100V C424 OF15153520 Film 0.056μF ±5% 100V C425 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55471520 Film 470pF ±5% 125V C429 DF55681520 Film 680pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C433 OF15102520 Film 270pF ±5% 125V C434 OF15102520 Film 1000pF ±5% 100V P400-RESISTORS (All Resistors are ±2% and ½W) 46.4KΩ R402 GM21446420 46.4KΩ R404 GM21446420 46.4KΩ R405 GM21446420 46.4KΩ R406 GM21446400 46.4KΩ R407 GM21410000 100Ω R408 GM21440000 100Ω R409 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21446410 4.64KΩ R416 GM21446410 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21446610 4.64KΩ R419 GM21456220 56.2KΩ				•		
C423 OF15153520 Film 0.015μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55471520 Film 470pF ±5% 125V C429 DF55681520 Film 680pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C433 OF15102520 Film 1000pF ±5% 100V C434 OF15102520 Film 1000pF ±5% 100V Film 100V Film 1000pF ±5% 100V Film 100V Film 100V Film				•		
C424 OF15153520 Film 0.015μF ±5% 100V C425 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55671520 Film 470pF ±5% 125V C428 DF55681520 Film 470pF ±5% 125V C429 DF55681520 Film 680pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C433 OF15102520 Film 1000pF ±5% 100V C434 OF15102520 Film 1000pF ±5% 100V P400-RESISTORS (All Resistors are ±2% and ½W) 46.4KΩ R402 GM21446420 46.4KΩ R404 GM21446420 46.4KΩ R406 GM21446420 46.4KΩ R406 GM21446420 46.4KΩ R406 GM21446400 46.4KΩ R407 GM21446400 46.4KΩ R408 GM21446400 46.4KΩ R409 GM21448640 46.4KΩ R409 GM214483310 3.83KΩ R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 511Ω R413 GM21438310 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21446410 511Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21446610 56.2KΩ	C422	0515152520			±==,	
C425 OF15563520 Film 0.056μF ±5% 100V C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55681520 Film 680pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55681520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C433 OF15102520 Film 270pF ±5% 125V C433 OF15102520 Film 1000pF ±5% 100V C434 OF15102520 Film 1000pF ±5% 100V				•		
C426 OF15563520 Film 0.056μF ±5% 100V C427 DF55471520 Film 470pF ±5% 125V C428 DF55471520 Film 470pF ±5% 125V C429 DF55681520 Film 680pF ±5% 125V C430 DF55681520 Film 680pF ±5% 125V C431 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C433 OF15102520 Film 1000pF ±5% 100V Film 1000pF				•		
C427 DF55471520 Film 470pF ±5% 125∨ C428 DF55471520 Film 470pF ±5% 125∨ C429 DF55681520 Film 680pF ±5% 125∨ C430 DF55681520 Film 680pF ±5% 125∨ C431 DF55271520 Film 270pF ±5% 125∨ C432 DF55271520 Film 270pF ±5% 125∨ C432 DF55271520 Film 270pF ±5% 125∨ C433 OF15102520 Film 1000pF ±5% 100∨ C434 OF15102520 Film 1000pF ±5% 100∨ Film 1000pF ±5% 1				•		
C428 DF55471520 Film 470pF ±5% 125∨ C429 DF55681520 Film 680pF ±5% 125∨ Film 680pF ±5% 125∨ Film 680pF ±5% 125∨ Film 270pF ±5% 125∨ C431 DF55271520 Film 270pF ±5% 125∨ C432 DF55271520 Film 1000pF ±5% 100∨ Film 1000pF	_			•		
C429 DF55681520 Film 680pF ±5% 125∨ Film 270pF ±5% 126∨ Film 1000pF ±5% 100∨ Film 1000pF ±5% 1000pF ±5% 100∨ Film 1000pF ±5% 1000pF ±5% 100∨ Film 1000pF ±5% 100pF ±5% 100∨ Film 1000pF ±5% 100∨ Film 100				,		
C430 DF55681520 Film 680pF ±5% 125V Film 270pF ±5% 125V Film 270pF ±5% 125V Film 270pF ±5% 125V Film 270pF ±5% 126V Film 1000pF ±5% 100V Film 1000pF ±5% 1				•		
C431 DF55271520 Film 270pF ±5% 125V C432 DF55271520 Film 270pF ±5% 125V C433 OF15102520 Film 1000pF ±5% 100V P400-RESISTORS (All Resistors are ±2% and ½W) P400-RESISTORS (All Resistors are ±2% and ½W) 46.4KΩ R402 GM21446420 46.4KΩ R403 GM21446420 46.4KΩ R404 GM21446420 46.4KΩ R406 GM21446400 46.4Ω R407 GM21440000 100Ω R408 GM21410000 100Ω R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21446410 4.64KΩ R417 GM21446410 <td< td=""><td></td><td></td><td></td><td>•</td><td></td><td></td></td<>				•		
C432 DF55271520 Film 270pF ±5% 125V Film 1000pF ±5% 100V P400-RESISTORS (All Resistors are ±2% and ¼W) 46.4 κΩ 46.4				•		-
C433 OF15102520 Film 1000pF ±5% 100V P400-RESISTORS (All Resistors are ±2% and ½W) R401 GM21446420 46.4KΩ R402 GM21446420 46.4KΩ R404 GM21446420 46.4KΩ R405 GM21446400 46.4KΩ R406 GM21446400 46.4Ω R407 GM21446400 100Ω R408 GM21446400 100Ω R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 R416 GM21410000 R416 GM21410000 R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ	C432	DF55271520		•		
P400-RESISTORS (All Resistors are ±2% and ½W) 46.4 KΩ						
R401 GM21446420 46.4 KΩ 46.	C434	OF15102520	Film	1000pF	± 5%	100
R401 GM21446420 46.4KΩ R402 GM21446420 46.4KΩ R403 GM21446420 46.4KΩ R404 GM21446420 46.4KΩ R405 GM214464G0 46.4Ω R406 GM214464G0 46.4Ω R407 GM21410000 100Ω R408 GM21410000 100Ω R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ					1/181	1
R402 GM21446420 46.4 κΩ R403 GM21446420 46.4 κΩ R404 GM21446420 46.4 κΩ R405 GM214464G0 46.4 Ω R406 GM214464G0 46.4 Ω R407 GM21410000 100Ω R408 GM21410000 100Ω R409 GM21438310 3.83 κΩ R410 GM21438310 3.83 κΩ R412 GM21438310 3.83 κΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM2141000 100Ω R417 GM21446410 4.64 κΩ R418 GM21446410 4.64 κΩ R419 GM21456220 56.2 κΩ	R401	GM21446420		JIS 210 1270	aug waa	,
R403 GM21446420 46.4KΩ R404 GM21446420 46.4KΩ R405 GM214464G0 46.4Ω R406 GM214464G0 46.4Ω R407 GM21410000 100Ω R408 GM21410000 100Ω R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ						
R404 GM21446420 46.4 κΩ R405 GM214464G0 46.4 Ω R406 GM214464G0 46.4 Ω R407 GM21410000 100 Ω R408 GM21410000 100 Ω R409 GM21438310 3.83 κΩ R410 GM21438310 3.83 κΩ R412 GM21438310 3.83 κΩ R413 GM21438310 511 Ω R414 GM21451100 511 Ω R414 GM21451100 511 Ω R415 GM21410000 100 Ω R416 GM21410000 100 Ω R417 GM21446410 4.64 κΩ R418 GM21446410 4.64 κΩ R419 GM21456220 56.2 κΩ						
R406 GM214464G0 46.4Ω R407 GM21410000 100Ω R408 GM21410000 100Ω R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ	R404	GM21446420				
R406 GM214464G0 46.4Ω R407 GM21410000 100Ω R408 GM21410000 100Ω R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ	R405	GM214464G0				
R408 GM21410000 100Ω R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ	R406	GM214464G0				
R409 GM21438310 3.83KΩ R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ			100Ω			
R410 GM21438310 3.83KΩ R411 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ						
R411 GM21438310 3.83KΩ R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ						
R412 GM21438310 3.83KΩ R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ	rt410	GW21438310	3.83KΩ			
R413 GM21451100 511Ω R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64ΚΩ R418 GM21446410 4.64ΚΩ R419 GM21456220 56.2ΚΩ						
R414 GM21451100 511Ω R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64ΚΩ R418 GM21446410 4.64ΚΩ R419 GM21456220 56.2ΚΩ						
R415 GM21410000 100Ω R416 GM21410000 100Ω R417 GM21446410 4.64ΚΩ R418 GM21446410 4.64ΚΩ R419 GM21456220 56.2ΚΩ						
R416 GM21410000 100Ω R417 GM21446410 4.64ΚΩ R418 GM21446410 4.64ΚΩ R419 GM21456220 56.2ΚΩ						
R417 GM21446410 4.64KΩ R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ						
R418 GM21446410 4.64KΩ R419 GM21456220 56.2KΩ						
R419 GM21456220 56.2KΩ						
			50.21106			

REF. DESIG.	PART NO.	DESCRIPTION
R423 R424 R425 R426 R427 R428 R429 R430 AR431 AR432 AR433	GM21413300 GM21413300 GM21421500 GM21421500 GM21417820 GM21417820 GM21412110 GM21412110 GG05330140 GG05330140 GG05330140 GG05330140	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
D401 D402 D403 D404 D405 D406	HD60007100 HD60007100 HD20011050 HD20011050 HD20011050 HD20011050	P400-SEMICONDUCTORS Diode, C.R. 10YD4.5C Diode, C.R. 10YD4.5C Diode 1S1555 Diode 1S1555 Diode 1S1555 Diode 1S1555
Q401 Q402 Q403 Q404 Q405 Q406	HF203691B0 HF203691B0 HF203691B0 HF203691B0 HC10027090 HC10027090	F.E.T. 25K369(BL) F.E.T. 25K369(BL) F.E.T. 25K369(BL) F.E.T. 25K369(BL) IC 5534D IC 5534D
J401 J402 J403 J404 J405 J406 J407 J408 J409 J410 J411	YP01001080 YP01001080 YP01001090 YP01001090 YP01001020 YP01001020 YP01001020 YP01001020 YP01001980 YJ07001570 YJ07001540	P400-MISCELLANEOUS Plug, 8P Plug, 8P Plug, 9P Plug, 9P Plug, 4P Plug, 4P Plug, 4P Plug, 4P Plug, 4P Plug 4P
L401 L402 L403 L404 L405 L406	TI11606010 TI11606010 LY20240230 LY20240230 LY20240230 LY20240230	Input Transformer, CH-L Input Transformer, CH-R Relay Relay Relay Relay
\$401 \$402 \$403	SS04030230 SS06060100 SS06040050	Slide Switch, Phono Select Slide Switch, Function Slide Switch, Tape Monitor
P600 C601 C602 C603 C605 C606 C607 C608 C609 C610	YK274H3610 ZZ274H8610 OF55101520 OF55391520 OF56470520 OF56050520 OA10701650 OA22703550 OA22703550 EB56708010 EB56708010 OF15102520	P600-POWER AMP., CH-L CIRCUIT BOARD P.W. Board, Power Amp; CH-L P.W. Board Assembly P600-CAPACITORS Film 100pF ±5% 125V Film 47pF ±10% 125V Film 5pF ±10% 125V Elect 100μF 16V Elect 220μF 35V Elect 220μF 35V Elect 560μF 80V Film 1000pF ±5% 100V

REF. DESIG.	PART NO.	I	DESCRIP	TION	
C614	OF15102520	Film	1000pF		100V
C615	OF15222520		0.0022µF		
C616	OA47505010	Elect	4.7µF		50V
		P600-RESIS	_		
		(All Resisto	rs are ±2%	and %V	N)
R601	GM21410010	1ΚΩ			
R602 R603	GM21426720 GM214100G0	26.7KΩ 10Ω			
R604	GM21410000	1ΚΩ			
R605	GM21410020	10KΩ			
R606	GM21410020	10KΩ			
R607	GM21426720	26.7KΩ			
R608	GM21446410	4.64KΩ	±=0/		
R610 R611	GG05010140 GM21456200	1Ω 562Ω	±5%		
noii	GW21450200	90212			
R612	GM21456200	562Ω			
R614	GM21421520	21.5KΩ			
R615 R616	GM21412130 GM21446420	121KΩ 46.4KΩ			
R617	GG05272140	2.7ΚΩ	±5%		
R618	GG05272140	2.7ΚΩ	±5%		
R619	GM21490900	909Ω			
R621	GG05472140	4.7ΚΩ	±5%		
R622	RA02030260		I), Trimm	ing	
R623	GG05272140	2.7ΚΩ	±5%		
R624	GG05272140	2.7ΚΩ	±5%		
R625	GG05272140	2.7ΚΩ	±5%		
R626	GG05272140	2.7ΚΩ	±5%		
R627	GG05822140 GG05822140	8.2KΩ	±5% ±5%		
R628 R629	GG05622140 GG05151140	8.2KΩ 150Ω	±5%		
R630	GG05151140	150Ω	±5%		
R631	GG05101140	100Ω	±5%		
R632	GG05101140	100Ω	±5%		
R633	GG05101140	100Ω	±5%		
R634	GG05101140	100Ω	±5%		
R637	GM21412130	121KΩ			
R638	GM21421510	2.15KΩ			
R640 R641	GM21456200 GM21411010	562Ω 1.1KΩ			
R642	RA01030720), Trimmi	ina	
R643	RA01030720), Trimmi		
R644	GM21410000	100Ω	,	5	
R646	GA05151020	150Ω	±5%	2W	
R647	GG05470140	47Ω	±5%		
R648	GG05470140	47Ω	±5%		
R649	GG05102140	1ΚΩ	±5%		
R650	GG05102140	1ΚΩ	±5%		
R651	GG05152140	1.5ΚΩ	±5%		
R652 R655	GG05152140 GG05331140	1.5KΩ 330Ω	±5% ±5%		
R656	GG05331140 GG05331140	330Ω	±5%		
R657	GG05152140	1.5KΩ	±5%		
R658	GG05152140	1.5ΚΩ	±5%		
 A R667	GG05100140	10Ω	±5%		
 A R668	GG05100140	10Ω	±5%		
R671	BW10000080	0.18Ω×2		5W	
R672	BW10000080	0.18Ωx2		5W	
R673	BW10000080	0.18Ωx2		5W	
R675 R676	GG05562120 GG05562120	5.6KΩ 5.6KΩ	±5% ±5%	1/2W	
	GG05562120 GG05332120	3.3KΩ	±5%	½W ½W	
R677				1444	

MG160

REF. DESIG.	PART NO.	DESCRIPTION
		P600-SEMICONDUCTORS
D601	HD60007100	Diode, CR 10YD4.5C
D602	HD60007100	Diode, CR 10YD4.5C
D603	HD20011050	Diode 1S1555
D604	HD20011050	Diode 1S1555
D605	HD20011050	Diode 1S1555
D606	HD20011050	Diode 1S1555
D609	HD20011050	Diode 1S1555
D610	HD20011050	Diode 1S1555
D611	HD20011050	Diode 1S1555
D612	HD20011050	Diode 1S1555
D613	HD20014010	Diode 1SS81
D614	HD20014010	Diode 1SS81
D615	HD20014010	Diode 1SS81
D616	HD20014010	Diode 1SS81
D617	HD30028010	Zener HZ11A-3L
D618	HD30028010	Zener HZ11A-3L
D619	HD30031010	Zener HZ22L-2
D620	HD20011050	Diode 1S1555
Q601	HF203892A0	F.E.T. 2SK389(GR, BL)
Q602	HT333812A0	Transistor 2SC3381(GR, BL)
Q603	HT322402A0	Transistor 2SC2240(GR, BL)
Q604	HT322402A0	Transistor 2SC2240(GR, BL)
Q605	HT109702A0	Transistor 2SA970(GR, BL)
Q606	HT109702A0	Transistor 2SA970(GR, BL)
Q607	HT109702A0	Transistor 2SA970(GR, BL)
Q608	HT322402A0	Transistor 2SC2240(GR, BL)
Q609	HT109702A0	Transistor 2SA970(GR, BL)
Q610	HT322402A0	Transistor 2SC2240(GR, BL)
Q611	HT11145100	Transistor 2SA1145(O)
Q612	HT327051O0	Transistor 2SC2705(O)
Q613	HT11145100	Transistor 2SA1145(O)
Q614	HT32705100	Transistor 2SC2705(O)
Q615	HT326823A0	Transistor 2SC2682(P, Q, R)
Q616	HT111423A0	Transistor 2SA1142(P, Q, R)
Q617	HT318152A0	Transistor 2SC1815(O, Y)
Q618 Q619	HT110152A0	Transistor 2SA1015(O, Y)
Q620	HT329092B0 HT112072B0	Transistor 2SC2909(S, T) Transistor 2SA1207(S, T)
		17d11515101 25A1207(5, 17
Q621	HT109702A0	Transistor 2SA970(GR, BL)
Q622	HT329092A0	Transistor 2SC2909(D, E)
Q623	HT322401B0	Transistor 2SC2240(BL)
Q624 Q625	HT109701B0	Transistor 2SA970(BL)
Q625 Q626	HT322402A0	Transistor 2SC2240(GR, BL)
Q628	HT109702A0 HW10006320	Transistor 2SA970(GR, BL)
2020	HW10000320	Photo Unit PC-817
1601	Vnaacaaaa	P600-MISCELLANEOUS
J601 J602	YP06001040	Plug, 3P
	YP06003540	Plug, 4P
J603	YP06003540	Plug, 4P
J604	YJ06003550	Jack, 6P
J605	YJ06003550	Jack, 6P
J606 J607	YJ07001560	Jack, 6P
3007	YP06001040	Plug, 3P
		P600-POWER AMP, CH-R
P700	VVOTALIOOOG	CIRCUIT BOARD
F/00	YK274H3620	P.W. Board, Power Amp; CH-R
	ZZ274H8620	P.W. Board Assembly
C701	0555404500	P700-CAPACITORS
C701	OF55101520	Film 100pF ±5% 125V
C702	OF55391520	Film 390pF ±5% 125V
C705	OF56470520	Film 47pF ±10% 125V
C706	OF56050520	Film 5pF ±10% 125V
5,55	OA10701650	Elect 100μF 16V

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REF. DESIG.	PART NO.		DESCRIPT	rion	
DESIG.		-			
0707	0.100700FF0				
C707 C708	OA22703550 OA22703550	Elect	220µF		35V
C708	EB56708010	Elect	220µF		35V
C709	EB56708010	Elect	560µF		80V
C713	OF15102520	Elect Film	560μF 1000pF		80V 100V
C714	OF15102520	Film	1000pF		100V 100V
C715	OF15102520	Film	0.0022µF		100V 100V
C716	OA47505010	Elect	4.7μF		50V
			·		
		P700-RES	SISTORS tors are ±2%	4 4 V	-/1
R701	GM21410010	1Ks		diu	V)
R702	GM21426720	26.7Ks			
R703	GM214100G0	100			
R704	GM21410010	1KΩ	2		
R705	GM21410020	10K s			
R706	GM21410020	10KΩ			
R707	GM21426720	26.7KΩ			
R708 R710	GM21446410 GG05010140	4.64KΩ			
R710	GG05010140 GM21456200	1Ω 562Ω			
Dr. i.i	GIVIZ 1400200	562Ω	}		
R712	GM21456200	562Ω)		
R714	GM21421520	21.5KΩ			
R715	GM21412130	121ΚΩ			
R716	GM21446420	46.4KΩ	}		
R717	GG05272140	2.7ΚΩ			
R718	GG05272140	2.7ΚΩ			
R719	GM21490900	909Ω			
R721 R722	GG05472140 RA02030260	4.7KΩ			
R723	GG05272140	20KΩ 2.7KΩ	(B), Trimmir ±5%	ıg	
111	00002727.0	4.51740	/O		
R724	GG05272140	2.7ΚΩ	±5%		
R725	GG05272140	2.7ΚΩ	±5%		
R726	GG05272140	2.7ΚΩ			
R727	GG05822140	8.2KΩ			
R728	GG05822140	8.2KΩ			
R729	GG05151140 GG05151140	150Ω 150Ω			
R731	GG05151140 GG05101140	150Ω 100Ω			
R732	GG05101140	100Ω			
R733	GG05101140	100Ω			
R734	GG05101140	100Ω	±5%		
R737 R738	GM21412130 GM21421510	121KΩ			
R740	GM21421510 GM21456200	2.15KΩ 562Ω			
R740	GM21456200 GM21411010	562Ω 1.1KΩ			
R742	RA01030720		(B), Trimmin	4	
R743	RA01030720		(B), Trimmin		
R744	GM21410000	100Ω	(6,,	9	
R746	GA05151020	150Ω	±5%	2W	
R747	GG05470140	47Ω	±5%		
R748	GG05470140	470	4-0/		
R749	GG05470140 GG05102140	47Ω 1KΩ	±5% +5%		
R750	GG05102140 GG05102140	1ΚΩ 1ΚΩ	±5% ±5%		
R751	GG05102140 GG05152140	1.5ΚΩ	±5%		
R752	GG05152140	1.5KΩ	±5%		
R755	GG05331140	330Ω	±5%		
R756	GG05331140	330Ω	±5%		
R757	GG05152140	1.5KΩ	±5%		
R758	GG05152140	1.5ΚΩ	±5%		
∆R767	GG05100140	10Ω	±5%		
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REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
 ∆ R768	GG05100140	10Ω ±5%			PE01-TONE, CH-L
R771	BW10000080	0.18Ω×2 ±10% 5W			CIRCUIT BOARD
R772	BW10000080	0.18Ωx2 ±10% 5W	PE01	YK274H2850	P.W. Board, Tone; CH-L
R773	BW10000080	0.18\Omega \times \frac{\pmatrix}{10\%} 5W		ZZ274H2850	P.W. Board Assembly
R775	GG05562120	5.6KΩ ±5% ½W 5.6KΩ ±5% ½W	0504	E 4 47500500	PE01-CAPACITORS
R776 R777	GG05562120 GG05332120	5.6KΩ ±5% ½W 3.3KΩ ±5% ½W	CE01	EA47503560	Elect 4.7μF 35V
R777	GG05332120 GG05332120	3.3KΩ ±5% ½W	CE03 CE05	EA47503560	Elect 4.7μF 35V Film 100pF ±5% 125V
11770	0000002120	5.5K12 -570 /244	CE05	OF55101520 OF55101520	Film 100pF ±5% 125V Film 100pF ±5% 125V
		P700-SEMICONDUCTORS	CE09	OF15103520	Film 0.01µF ±5% 100V
D701	HD60007100	Diode, CR 10YD4.5C	CE11	OF15103520	Film 0.01µF ±5% 100V
D702	HD60007100	Diode, CR 10YD4.5C	CE13	OF15102520	Film 100pF ±5% 100V
D703	HD20011050	Diode 1S1555	CE15	DF56470530	Film 47pF ±10% 125V
D704	HD20011050	Diode 1S1555	CE17	OA22601610	Elect 22µF 16V
D705	HD20011050	Diode 1S1555	CE19	OA22601610	Elect 22µF 16V
D706	HD20011050	Diode 1S1555			·
D709	HD20011050	Diode 1S1555	CE21	OF15182520	Film 1800pF ±5% 100V
D710	HD20011050	Diode 1S1555	CE23	DF55101530	Film 100pF ±5% 125V
D711	HD20011050	Diode 1S1555	CE25	OA22702510	Elect 220µF 25V
D712	HD20011050	Diode 1S1555	CE27	OA22702510	Elect 220μF 25V
D713	HD20014010	Diode 1SS81			PE01-RESISTORS
D714	HD20014010	Diode 1SS81			(All Resistors are ±2% and ¼W)
D715	HD20014010	Diode 1SS81	RE01	GM21410030	100KΩ
D716	HD20014010	Diode 1SS81	RE03	GM21410030	10ΚΩ
D717	HD30028010	Zener HZ11A-3L	RE05	GM21446410	4.64KΩ
D718	HD30028010	Zener HZ11A-3L	RE07	GM21410020	10ΚΩ
D719	HD30031010	Zener HZ22L-2	RE09	GM21438320	38.3ΚΩ
D720	HD20011050	Diode 1S1555	RE11	GM21438320	38.3ΚΩ
			RE13	GM21410020	10ΚΩ
Q701	HF203892A0	F.E.T. 2SK389(GR, BL)	RE15	GM21410020	10ΚΩ
Q702	HT333812A0	Transistor 2SC3381(GR, BL)	RE17	GM21410020	10ΚΩ
Q703	HT322402A0	Transistor 2SC2240(GR, BL)	RE21	GM21421500	215Ω
Q704	HT322402A0	Transistor 2SC2240(GR, BL)	''		
Q705	HT109702A0	Transistor 2SA970(GR, BL)	RE23	GM21410030	100ΚΩ
Q706	HT109702A0	Transistor 2SA970(GR, BL)	RE25	RK01040280	100K $\Omega(B)$, Variable; Bass
Q707	HT109702A0	Transistor 2SA970(GR, BL)	RE27	RK01040280	100KΩ(B), Variable; Treble
Q708	HT322402A0	Transistor 2SC2240(GR, BL)	▲ RE29	GG05152140	1.5KΩ ±5%
Q709	HT109702A0	Transistor 2SA970(GR, BL)	⚠ RE31	GG05152140	1.5KΩ ±5%
Q710	HT322402A0	Transistor 2SC2240(GR, BL)			
0744					PE01-SEMICONDUCTOR
Q711	HT11145100	Transistor 2SA1145(O)	QE01	HC10021090	IC 4560DD
Q712	HT32705100	Transistor 2SC2705(O)			
Q713 Q714	HT11145100	Transistor 2SA1145(O)			PE01-MISCELLANEOUS
Q715	HT32705100	Transistor 2SC2705(O)	JE01	YP01001030	Plug, 3P
Q716	HT326823A0 HT111423A0	Transistor 2SC2682(P, Q, R) Transistor 2SA1142(P, Q, R)	JE03	YP10001980	Plug, 2P
Q717	HT318152A0				
Q718	HT110152A0	Transistor 2SC1815(O, Y) Transistor 2SA1015(O, Y)	i		BEOS TONE OU B
Q719	HT329092B0	Transistor 2SC2909(S, T)			PE02-TONE, CH-R
0720	HT112072B0	Transistor 23C2505(S, T) Transistor 2SA1207(S, T)	PE02	YK274H2860	CIRCUIT BOARD P.W. Board, Tone; CH-R
=•			-=02	ZZ274H8860	P.W. Board, Tone; CH-H P.W. Board Assembly
0721	HT109702A0	Transistor 2SA970(GR, BL)			PE02-CAPACITORS
Q722	HT329092A0	Transistor 2SC2909(D, E)	CE02	EA47503560	Elect 4.7µF 35V
Q723	HT322401B0	Transistor 2SC2240(BL)	CE04	EA47503560	Elect 4.7µF 35V
Q724	HT109701B0	Transistor 2SA970(BL)	CE06	OF55101520	Film 100pF ±5% 125V
Q725	HT322402A0	Transistor 2SC2240(GR, BL)	CE08	OF55101520	Film 100pF ±5% 125V
Q726	HT109702A0	Transistor 2SA970(GR, BL)	CE10	OF15103520	Film 0.01µF ±5% 100V
Q728	HW10006320	Photo Unit PC-817	CE12	OF15103520	Film 0.01µF ±5% 100V
			CE14	OF15102520	Film 100pF ±5% 100V
1200		P700-MISCELLANEOUS	CE16	DF56470530	Film 47pF ±10% 125V
J701	YP06001040	Plug, 3P	CE18	OA22601610	Elect 22µF 16V
J702	YP06003540	Plug, 4P.	CE20	OA22601610	Elect 22µF 16V
J703	YP06003540	Plug, 4P			
J704	YJ06003550	Jack, 6P			
J705 J706	YJ06003550	Jack, 6P			
J706 J707	YJ07001560	Jack, 6P			
3,07	YP06001040	Plug, 3P			
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(All 10	2-RESISTO Resistors a 00ΚΩ 10ΚΩ 10ΚΩ 64ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10	Variable Variable ±5% ±5% NDUCTO	: Bass ; Trebl	
30 Film Election Film	2-RESISTO Resistors a 00ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ	Variable Variable ±5% ±5% NDUCT(560DD	: Bass ; Trebl	125V 25V 25V 25V
110 Elec 110 Elec 110 Elec 110 Elec 110 Elec 110 Elec 1110 4.10 4.10 4.10 4.10 4.10 4.10 4.10	2-RESISTO Resistors a 00ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ	Variable Variable ±5% NDUCTO	; Bass ; Trebl	25V 25V
PEO (All 1) 220 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 38 38 38 38 38 38 38 38 38 38 38 38	2-RESISTO Resistors a 000ΚΩ 10ΚΩ 10ΚΩ 8.3ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10	Variable Variable ±5% NDUCTO	; Bass ; Trebl	25V
(All 10	Resistors a 00ΚΩ 10ΚΩ 10ΚΩ 64ΚΩ 10ΚΩ 8.3ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 215Ω 10ΟΚΩ 10ΟΚΩ 10ΟΚΩ 15ΚΩ 1.5ΚΩ 1.5ΚΩ 12-SEMICOI 4	Variable Variable ±5% ±5% NDUCTO	; Bass ; Trebl	
020 410 4.020 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 320 38 38 38 39 30 30 30 30 30 30 30 30 30 30	10ΚΩ .64ΚΩ 10ΚΩ 8.3ΚΩ 8.3ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 215Ω .00ΚΩ .00ΚΩ .00ΚΩ(B), .1.5ΚΩ .2-SEMICOI 4 .2-MISCELI .3 P	Variable ±5% ±5% NDUCTO	; Trebl	В
020 320 320 320 38 320 38 38 38 38 38 38 38 38 38 38	10ΚΩ 8.3ΚΩ 8.3ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 215Ω 00ΚΩ 00ΚΩ(B), 1.5ΚΩ 2-SEMICOI 4 12-MISCELI 3, 3P	Variable ±5% ±5% NDUCTO	; Trebl	е
320 38 32	8.3ΚΩ 8.3ΚΩ 10ΚΩ 10ΚΩ 10ΚΩ 215Ω 00ΚΩ 00ΚΩ(Β), 1.5ΚΩ 1.5ΚΩ 1.5ΚΩ 2-SEMICOI 4 12-MISCELI	Variable ±5% ±5% NDUCTO	; Trebl	В
320 38 320 38	8.3KΩ 10KΩ 10KΩ 10KΩ 215Ω 100KΩ 100KΩ 100KΩ(B), 100KΩ(B), 1.5KΩ 1.5KΩ 1.5KΩ 4 12-MISCELI	Variable ±5% ±5% NDUCTO	; Trebl	В
020 020 020 030 030 1280 140 140 140 150 160 170 180 170 180 180 180 180 190 190 190 190 190 190 190 190 190 19	10ΚΩ 10ΚΩ 10ΚΩ 215Ω 100ΚΩ 00ΚΩ(Β), 00ΚΩ(Β), 1.5ΚΩ 1.5ΚΩ 2-SEMICOI 4 12-MISCELI	Variable ±5% ±5% NDUCTO	; Trebl	₽
020 020 0500 030 1 280 1 280 1 140 140 990 IC PEO 130 Plug	10ΚΩ 10ΚΩ 215Ω 100ΚΩ 100ΚΩ(Β), 100ΚΩ(Β), 1.5ΚΩ 1.5ΚΩ 2-SEMICOI 4 12-MISCELI	Variable ±5% ±5% NDUCTO	; Trebl	е
020 500 030 1 080 1 080 1 040 090 IC PEO 980 Plug	10ΚΩ 215Ω 100ΚΩ(Β), 100ΚΩ(Β), 1.5ΚΩ 1.5ΚΩ 2-SEMICOI 4 12-MISCELI	Variable ±5% ±5% NDUCTO	; Trebl	В
030 1 030 1 080 1 080 1 040 1 090 IC PEO 030 Plug	215Ω 00ΚΩ 00ΚΩ(Β), 1.5ΚΩ 1.5ΚΩ 2-SEMICOI 4 12-MISCELI 3, 3P	Variable ±5% ±5% NDUCTO	; Trebl	ę
030 1 280 1 280 1 140 1 140 PEO 130 Plug	00ΚΩ 00ΚΩ(Β), 100ΚΩ(Β), 1.5ΚΩ 1.5ΚΩ 2-SEMICO 4 12-MISCELI	Variable ±5% ±5% NDUCTO	; Trebl	е
280 1 280 1 140 2 140 2 140 2 150 2 160 2 170 2 180 2	00ΚΩ(B), 00ΚΩ(B), 1.5ΚΩ 1.5ΚΩ 2-SEMICO 4 2-MISCELI 3, 3P	Variable ±5% ±5% NDUCTO	; Trebl	e
280 1 140 1 140 PEO 190 IC PEO 130 Plug 80 Plug	1.5KΩ 1.5KΩ 1.5KΩ 2-SEMICOI 4 12-MISCELI 3, 3P	Variable ±5% ±5% NDUCTO	; Trebl	e
90 IC PEO 90 Plug 80 Plug	1.5KΩ 1.5KΩ 2-SEMICOI 4 12-MISCELI 3, 3P	±5% ±5% NDUCT(560DD	OR	-
PE0 190 IC PE0 130 Plug 180 Plug	1.5KΩ 2-SEMICOI 4 12-MISCELI 3, 3P	±5% NDUCT(560DD		
90 IC PE0 30 Plug 80 Plug	4 12-MISCEL 3, 3P	560DD		
30 Plug 80 Plug	3, 3P	LANEO	10	
80 Plug			U O	
	3, 2P			
PGO				
830 P.W.	O-FLAT A CUIT BOA . Board, Fla . Board Ass	RD at Amp/s embly		
520 Film		100pF	±5%	125V
20 Film		100pF		
520 Film	n 1	800pF	±5%	125V
520 Film		800pF		
520 Film		47pF		
520 Film 520 Film		47pF	±10%	
520 Film 520 Film		22pF 22pF	±10%	
520 Film		300pF		
520 Film		300pF		100V
510 Elec	ct	220µF		25V
		220µF		25V
		•		6.3V
				6.3V
				25V
				25V
				25V 25V
		-		25V 25V
		220µF		25V
550 Fier	ct	220uF		25V
		220μF		25V 25V
				35V
				35V
		10µF		35V
510 E-		10μF		35V
	ct	47μF		10V
010 Elec		4/41		10V
010 Elec	ct	-		25V 25V
010 Elec 010 Elec 550 Elec	ct ct	220µF		100V
	510 Electric	510 Elect 510 Elect 510 Elect 550 Elect 560 Elect	Elect 220μF	Elect 220μF

REF. DESIG.	PART NO.	DESCRIPTION
		PG00-RESISTORS
		(All Resistors are ±2% and ¼W)
RG01	GM214464G0	46.4Ω
RG02	GM214464G0	46.4Ω
RG03	GM21438310	3.83KΩ
RG04	GM21438310	3.83ΚΩ
RG05	GM21438310	3.83ΚΩ
RG06	GM21438310	3.83ΚΩ
RG07	GM21421510	2.15ΚΩ
RG08	GM21421510	2.15ΚΩ
RG11 RG12	GM214681G0 GM214681G0	68.1Ω 68.1Ω
RG13	GM21475000	750Ω
RG14	GM21475000	750Ω
RG17	GM21421500	215Ω
RG18	GM21421500	215Ω
RG19	GM21410030	100ΚΩ
RG20	GM21410030	100ΚΩ
RG21	GM21412110	1.21ΚΩ
RG22	GM21412110	1.21ΚΩ
∆RG23	GG05330140	33Ω ±5%
∆RG24	GG05330140	33Ω ±5%
ARG25	GG05330140	33Ω ±5%
∆RG26	GG05330140	33Ω ±5%
RG81	GM21446420	46.4ΚΩ
RG82	GM21446420	46.4ΚΩ
RG83	GM21414710	1.47ΚΩ
RG84 RG85	GM21414710 GM21451100	1.47ΚΩ 511Ω
RG86	GM21451100	511Ω
RG87	GM21427410	2.74ΚΩ
RG88	GM21427410	2.74ΚΩ
RG89	GM21451100	511Ω
RG90	GM21451100	511Ω
RG91	GM21427410	2.74ΚΩ
RG92	GM21427410	2.74ΚΩ
RG93	GM21436510	3.65ΚΩ
RG94 RG97	GM21436510 GA05560010	3.65ΚΩ 56Ω
11037	0.00000010	
DG01	HD60007100	PG00-SEMICONDUCTORS Diode, CR 10YD4,5C
DG02	HD60007100	Diode, CR 10YD4.5C
DG81	HD30021010	Zener HZ6A-3L
DG82	HD30021010	Zener HZ6A-3L
△ DG83	HD20028080	Diode EP01Z
∆ DG84	HD20028080	Diode EP01Z
∆DG85	HD20028080	Diode EP01Z
∆DG86	HD20028080	Diode EP01Z
QG01	HF203691B0	F.E.T. 2SK369(BL)
QG02	HF203691B0	F.E.T. 2SK369(BL)
QG03	HF203691B0	F.E.T. 2SK369(BL)
QG04	HF203691B0	F.E.T. 2SK369(BL)
QG05	HC10027090	IC 5534D
QG06	HC10027090	IC 5534D
QG81	HF202461C0	F.E.T. 2SK246(GR) F.E.T. 2SK246(GR)
QG82 QG83	HF202461C0 HT318151B0	F.E.T. 2SK246(GR) Transistor 2SC1815(Y)
QG84	HT110151B0	Transistor 25C1815(Y) Transistor 2SA1015(Y)
QG85	HT318151B0	Transistor 2SC1815(Y)
QG86	HT110151B0	Transistor 2SA1015(Y)
∆ QG87	HT334222A0	Transistor 2SC3422(O, Y)
∆ QG88	HT113592A0	Transistor 2SA1359(O, Y)
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REF. DESIG.	PART NO.	DESCRIPTION
		DC00 MICCELL ANGOLIO
JG01	YP01001040	PG00-MISCELLANEOUS Plug, 4P
JG02	YP01001040	Plug, 4P
JG05	YP06001040	Plug, 3P
	11 00001040	Tidg, 31
		PK00-SUB/MONO/BALANCE/
PK00	YK274H2810	P.W. Board, Sub/Mono/Balance/CD
	ZZ274H8810	P.W. Board Assembly PK00-CAPACITORS
CK01	OF15394010	Film 0.39µF ±5%
CK02	OF15394010	Film 0.39µF ±5%
RK01	GM21410030	PK00-RESISTORS 100ΚΩ ±2% %W
RK02	GM21410030	
RK03	GM21410030	100KΩ ±2% ½W 2.15KΩ ±2% ½W
RK04	GM21421510	2.15KΩ ±2% ¼W
RK05	RM01040890	100KΩ, Variable; Balance
	51040000	
JK01	YJ07001530	PK00-MISCELLANEOUS Jack, 3P
SK01	SP04020470	Bush Sudanh Suhar da /a.a
SK02	SP04010500	Push Switch, Subsonic/Mono Push Switch, CD Direct
WK01	YB00280310	Connective Cord, 2P
WK02	YB00240100	Connective Cord, 2P
WK03	YB00230240	Connective Cord, 2P
WK04	YB00150510	Connective Cord, 4P
PL00	YF274H0010 ZZ274H0010 DF16105540 DF16105540	CIRCUIT BOARD P.W. Board, Power Transistor P.W. Board Assembly PL00-CAPACITORS Film 1μ F $\pm 10\%$ 100V Film 1μ F $\pm 10\%$ 100V
Δ RL01 Δ RL02 Δ RL03 Δ RL04 Δ RL05 Δ RL06 Δ RL07 Δ RL08	NH05221140 NH05221140 NH05221140 NH05101140 NH05101140 NH05101140 GG05068140 GG05068140	PL00-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 220 Ω , Fusible 220 Ω , Fusible 220 Ω , Fusible 100 Ω , Fusible 100 Ω , Fusible 100 Ω , Fusible 6.8 Ω 6.8 Ω
∆ DL01	HD20027100	PL00-SEMICONDUCTORS Diode 30DF-2
△ DL02	HD20027100	Diode 30DF-2
∆ QL01 ∆ QL02	HF20405100	F.E.T. 2SK405(O)
∆ QL03	HF20405100	F.E.T. 2SK405(O)
∆ QL04	HF20405100	F.E.T. 2SK405(O)
1 QL05	HF10115100 HF10115100	F.E.T. 2SJ115(O) F.E.T. 2SJ115(O)
1 QL06	HF10115100	
∆ QL07	HT332802A0	F.E.T. 2SJ115(0) Transistor 2SC3280(R, O)
∆ QL08	HT113012A0	Transistor 25C3280(R, O) Transistor 2SA1301(R, O)
1 QL09	HT329832A0	Transistor 2SC2983(O, Y)
∆QL10	HT112252A0	Transistor 2SA1225(O, Y)
10L11	HT334191Y0	Transistor 2SC3419(Y)
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REF. DESIG.	PART NO.	DESCRIPTION
ł		DI OA MICOTI I ANTONIO
JL01	YP06003560	PL01-MISCELLANEOUS Plug, 7P
JL02	YP06003540	Plug, 4P
JL03	YP06003540	Plug, 4P
JL04	YP06003550	Plug, 6P
JL05	YP06003550	Plug, 6P
		PN00-COMPARATOR/PROTECTOR/ SUPPLY CIRCUIT BOARD
PN00	YK274H3630	P.W. Board, Comparator/Protector/ Supply
	ZZ274H8630	P.W. Board Assembly PN00-CAPACITORS
CN01	OA47505010	Elect 4.7μF 50V
CN02	OA47601010	Elect 47µF 10V
CN03	OA47601010	Elect 47μF 10V
CN04	OA47601010	Elect 47µF 10V
CN05	OF15103520	Film 0.01µF ±5% 100V
CN21	DF56470530	Film 47pF ±10% 125V
CN22	OF15471520	Film 470pF ±5% 100V
CN23	OA10601610	Elect 10µF 16V
CN24	OF15103520	Film 0.01μF ±5% 100V
CN25	OF15103520	Film 0.01μF ±5% 100V
CN81	OA33703510	Elect 330µF 35V
CN82	OA33703510	Elect 330µF 35V
CN83	OA47702510	Elect 470μF 25V
CN84 CN85	OA33703510	Elect 330µF 35V
CN90	OA10601610	Elect 10μF 16V
CN91 CN92	EB56708010 EB56708010	Elect 560μF 80V Elect 560μF 80V
		PN00-RESISTORS
		(All Resistors are ±2% and ¼W)
RN04	GM21446420	46.4ΚΩ
RN06	GM21421520	21.5ΚΩ
 ∆RN11	NH05220140	22Ω ±5%, Fusible
RN21	GM21456210	5.62ΚΩ
RN22	GM21456210	5.62ΚΩ
RN23	GM21456210	5.62ΚΩ
RN24	GM21456210	5.62ΚΩ
RN25	GM21446400	464Ω
RN26	GM21446400	464Ω
RN27	GM21446400	464Ω
RN28	GM21446400	464Ω
RN29	GM21446410	4.64ΚΩ
RN30	GM21446410	4.64ΚΩ
RN31	GM21446410	4.64ΚΩ
RN32	GM21446410	4.64ΚΩ
RN33	GM214162G0	16.2Ω
RN34	GM214162G0	16.2Ω
RN35	GM214162G0	16.2Ω
RN36	GM214162G0	16.2Ω
RN37	GM21414720	14.7ΚΩ
RN38	GM21414720	14.7ΚΩ
RN39	RA01020460	1KΩ(B), Trimming
RN40	RA01020460	1KΩ(B), Trimming
RN41	RA01020460	1KΩ(B), Trimming
RN42	RA01020460	1KΩ(B), Trimming
RN43	GM21421510	2.15ΚΩ
RN44	GM21414720	14.7ΚΩ
RN47	GG05222140	2.2ΚΩ
RN48	GG05222140	2.2ΚΩ
∆RN81	GA05022010	2.2Ω ±5% 1W
∆RN82	GA05180010	18Ω ±5% 1W
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REF. DESIG.	PART NO.	DESCRIPTION
DN01 DN21 DN81 DN82 DN83 DN84 DN85 DN91 DN92 DN93 DN94	HD20016210 HD20011050 HD30021010 HD30021010 HD30021010 HD30021010 HE20002030 HD20028080 HD20028080 HD20028080 HD20028080	PN00-SEMICONDUCTORS Diode 1SR35-200A Diode 1S1555 Zener HZ6A-3L Zener HZ6A-3L Zener HZ6A-3L Zener HZ6A-3L Diode DBB10B Diode EP01Z Diode EP01Z Diode EP01Z Diode EP01Z Diode EP01Z
QN01 QN21 QN22 QN23 QN24 ♠ QN81 ♠ QN82 ♠ QN83 ♠ QN84	HC10042050 HC10009090 HC10009090 HC712301A0 HT318151B0 HT334222A0 HT113592A0 HF202461D0 HF202461D0	IC TA731PA IC NJM2901 IC NJM2901 IC HD74LS123 Transistor 2SC1815(Y) Transistor 2SC3422(O, Y) Transistor 2SA1359(O, Y) F.E.T. 2SK246(BL) F.E.T. 2SK246(BL)
JN01 JN02 JN03 JN06 JN07 JN08	YP01001090 YP01001980 YJ07001530 YP10001980 YP06000580 YP06000590	PN00-MISCELLANEOUS Plug, 9P Plug, 2P Jack, 3P Plug, 2P Plug, 5P Plug, 5P Plug, 7P
WN04 WN05	YU06180260 YU06180260	Jumper Lead, 6P Jumper Lead, 6P
PN50 Δ CN51 Δ RN51	YK274H3660 ZZ274H8660 OA33610010 GR05047080	PN50-SOFT START CIRCUIT BOARD P.W. Board, Soft Start P.W. Board Assembly Elect Cap. 33µF 100V Resistor 4.7Ω ±5% 7W
△ RN52	GA05472020	Resistor $4.7K\Omega \pm 5\% 2W$
△ DN51	HE20004030	Diode DBB10C
△ FN51 JN56 JN57 △ LN51	FS11000600 YJ08000170 YJ08000170 LY10480030	Fuse 10A 250V Jack, Fuse Holder Jack, Fuse Holder Relay
PQ00 RQ01	YK274H2820 ZZ274H8820 RM05031210	PQ00-MAIN VOLUME CIRCUIT BOARD P.W. Board, Main Volume P.W. Board Assembly Variable Resistor 50KΩ
WQ01	YB00430020	Connective Cord, 4P
PR00 CR01	YK274H3650	PRO0-SPEAKER/MUTING RELAY CIRCUIT BOARD P.W. Board, Speaker/Muting Relay PR00-CAPACITORS
CR02	DF16104510 DF16104510	Film 0.1µF ±10% 200V Film 0.1µF ±10% 200V

DEE	1	1
REF. DESIG.	PART NO.	DESCRIPTION
RR01	GA05100030	PR00-RESISTORS
RR02	GA05100030	10Ω ±5% 3W 10Ω ±5% 3W
RR03	GG05022120	2.2Ω ±5% ½W
RR04	GG05022120	2.2Ω ±5% ½W
RR05	GA05331020	330Ω ±5% 2W
RR06	GA05331020	330Ω ±5% 2W
		PR00-SEMICONDUCTORS
DR01	HD20011050	Diode 1S1555
DR02	HD20011050	Diode 1S1555
		PR00-MISCELLANEOUS
JR01	YP06001040	Plug, 3P
JR02	YP06001040	Plug, 3P
JR03	Y800060110	Connective Cord, 1P
JR04	YB00170140	Connective Cord, 1P
JR05	YB00170150	Connective Cord, 1P
JR06	YB00060100	Connective Cord, 1P
JR07	YB00060090	Connective Cord, 1P
JR08 JR09	YB00150490 YB00150490	Connective Cord, 1P
JR10	YB00060090	Connective Cord, 1P Connective Cord, 1P
JR11	YJ07001550	Jack, 5P
	1.007001000	38CK, 31
LR01	LY20240150	Relay, Speaker
LR02	LY20240150	Relay, Speaker
LR03	LJ31115080	Coil, Output
LR04	LJ31115080	Coil, Output
WN01	YB00220190	Connective Cord, 9P
	. 555225155	Sometive cord, or
PR50 RR51 RR52	YK274H3640 ZZ274H8640 GA05102010 GA05102010	PR50-PHONE/SPEAKER SELECT CIRCUIT BOARD P.W. Board, Phone/Speaker Select P.W. Board Assembly Resistor 1ΚΩ ±5% 1W Resistor 1ΚΩ ±5% 1W
JR51 SR51	YJ01002080 SP02020860	Jack, Phone Push Switch, Speaker Select
		Turi ovincin, opeanar opicat
PT00	YK274H2840	PT00-TONE/TAPE 1, 2/VCR/ MUTING CIRCUIT BOARD P.W. Board, Tone/Tape 1, 2/VCR/Muting
		PT00-RESISTORS
RT01	GM21421510	2.15KΩ ±2% ½W
RT02	GM21421510	2.15KΩ ±2% ¼W
RT03	GM21421500	215Ω ±2% ½W
RT04 RT05	GM21421500 GA05102010	215Ω ±2% ½W
RT06	GA05102010 GA05102010	1KΩ ±5% 1W 1KΩ ±5% 1W
RT07	GA05102010	1KΩ ±5% 1W 1KΩ ±5% 1W
		11/42
		PT00-MISCELLANEOUS
JT01	YP06001040	Plug, 3P
JT02	YJ07001550	Jack, 5P
ST01	SP04010480	Push Switch, Muting
ST02	SP02040330	Push Switch, Tape 1, 2/VCR
ST03	SP04010480	Push Switch, Tone Defeat
WT01	YB00160230	Connective Cord, 4P
WT02	YB00220210	Connective Cord, 3P
WT03 WT04	YB00300920	Connective Cord, 3P
W 1 U4	YB00740010	Connective Cord, 8P

REF. DESIG.	PART NO.	DESCRIPTION
PV00	YK274H1320 ZZ274H8320	PV00-PHONO/CD/TUNER/AUX 1, 2 CIRCUIT BOARD P.W. Board, Phono/CD/Tuner/AUX 1, 2 P.W. Board Assembly PV00-CAPACITORS
CV01 { CV12	DA17103010	Ceramic 0.01μF ±20% 25V
DV01	HD20011050	PV00-SEMICONDUCTORS Diode 1S1555
JV01 JV02 JV03 JV04 JV05	YT02040570 YT02020470 YT02040580 YT02040580 YP06002010	PV00-MISCELLANEOUS Terminal, Phono/CD Terminal, Tuner Terminal, AUX 1, AUX 2 Terminal, Pri-OUT/Main-IN Plug, 4P
LV01	LY20240230	Relay, Pri-OUT
WV01 WV02 WV05 WV06 WV07	YB00400510 YB00480060 YB00140200 YB00670010 YB00180240	Connective Cord, 8P Connective Cord, 8P Connective Cord, 4P Connective Cord, 4P Connective Cord, 2P
PWO0 CWO1 CWO6	YK274H1330 ZZ274H8330 DA17103010	PW00-TAPE PLAY/REC/VCR CIRCUIT BOARD P.W. Board, Tape Play/Rec/VCR P.W. Board Assembly Ceramic Cap. 0.01µF ±20% 25V
JW01 JW02 JW03	YT02040580 YT02040580 YT02040580	Terminal, Tape 1 Terminal, Tape 2 Terminal, HIFI VCR
WWO1 WWO2	YB00340050 YB00280300	Connective Cord, 9P Connective Cord, 9P

PY00	YK274H2870 ZZ274H8870	PY00-FUNCTION IND. CIRCUIT BOARD P.W. Board, Function IND. P.W. Board Assembly
RY01 RY02	GA05102010 GA05102010	Resistor $1K\Omega \pm 5\% 1W$ Resistor $1K\Omega \pm 5\% 1W$
DY01 DY02 DY03 DY04 DY05 DY06	HI10048320 HI10048320 HI10048320 HI10048320 HI10048320 HI10037320	L.E.D. GL-3HD7, CD L.E.D. GL-3HD7, Phono L.E.D. GL-3HD7, Tuner L.E.D. GL-3HD7, AUX 1 L.E.D. GL-3HD7, AUX 2 L.E.D. LT-9200N, CD Direct
WY01 WY02	YU07220260 YU03180260	L.E.D. LT-9200N, CD Direct Jumper Lead, 7P Jumper Lead, 3P
PZ00 DZ01 DZ02 DZ03 DZ04	YK274H2880 ZZ274H8880 HI10048320 HI10048320 HI10048320 HI10037320	PZ00-TAPE/VCR/MUTING IND. CIRCUIT BOARD P.W. Board, Tape/VCR/Muting IND P.W. Board Assembly L.E.D. GL-3HD7, Tape 1 L.E.D. GL-3HD7, VCR L.E.D. GL-3HD7, VCR L.E.D. LT-9200N, Muting
WZ01 WZ02	YU04260260 YU05100260	Jumper Lead, 4P Jumper Lead, 5P

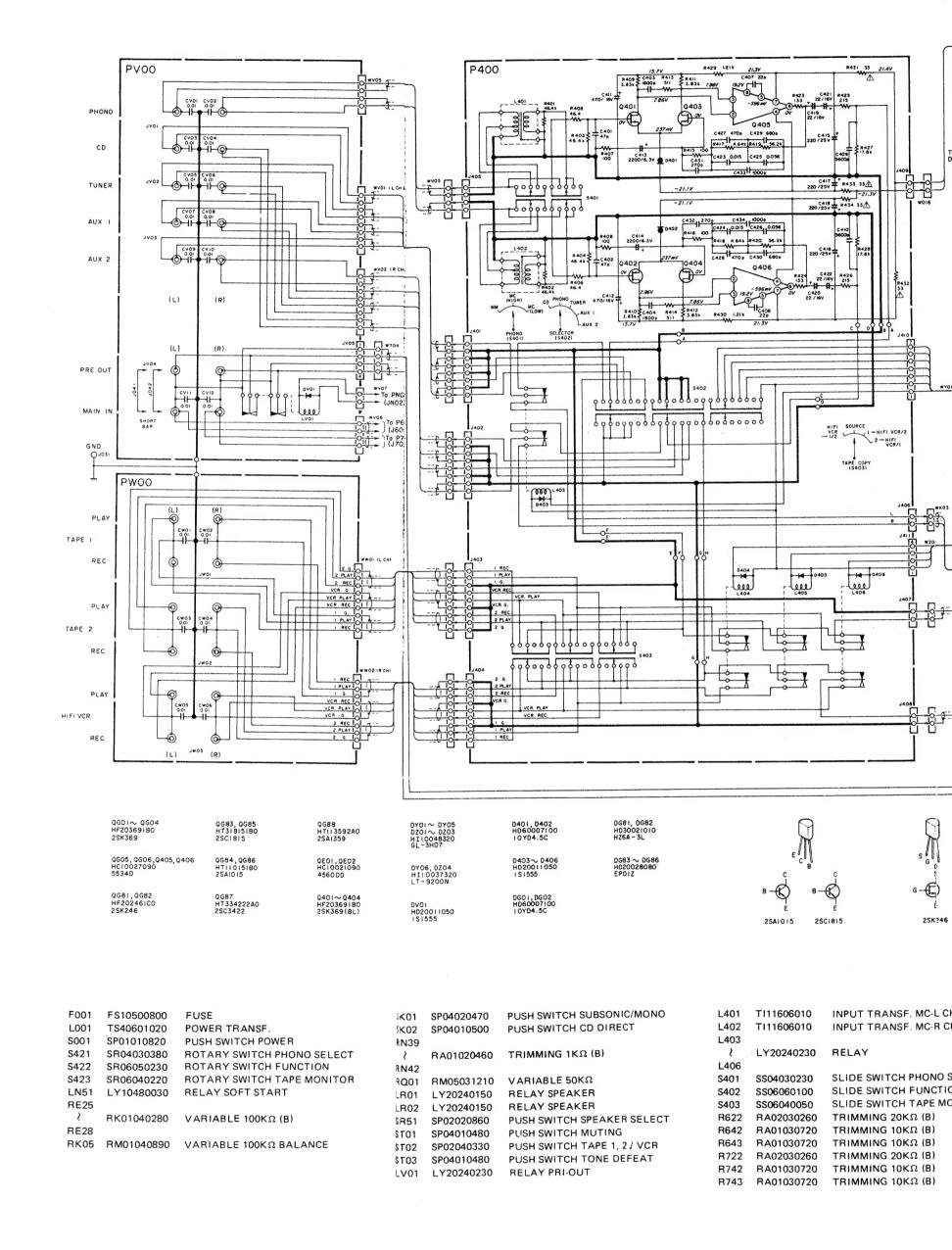
(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

NOTE ON SAFETY:

Symbol \triangle Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol \triangle . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

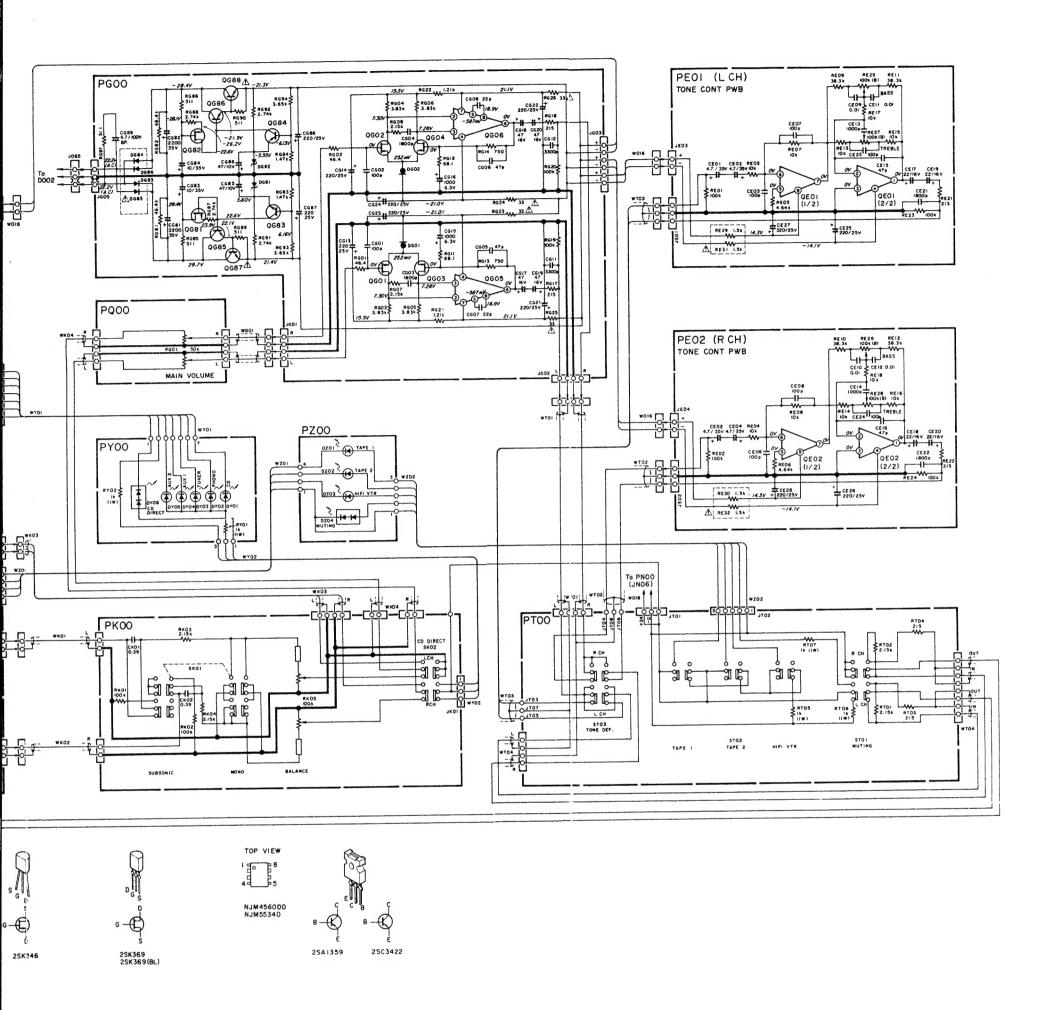
9. TECHNICAL SPECIFICATIONS

AUDIO SECTION
IHF Dynamic Power 310 W 4 OHMS
POWER OUTPUT PER CHANNEL 240 W DIN 4 OHMS AT 1 kHz 220 W RMS 4 OHMS FTC 220 W DIN 8 OHMS AT 1 kHz 150 W RMS 8 OHMS FTC 140 W TOTAL HARMONIC DISTORTION AT RMS 8 OHMS 0.01% I.M. DISTORTION 0.01% DAMPING FACTOR 8 OHMS (1 kHz) 200
MAIN IN Sensitivity 1.5 V MAIN IN Impedance 27 k ohms Frequency Response (MAIN IN) 10 Hz ~ 100 kHz Signal to Noise Ratio, MAIN IN (A weighted) at 1 W Output 97 dB
MM CARTRIDGE INPUT
Frequency Response (IEC RIAA) $\pm 0.2 dB$ Signal-to-Noise Ratio (A weighted) 92 dB Input Impedance 47 k ohms Input Capacitance 100 pF Input Sensitivity 2.5 mV Equivalent Input Noise (A weighted) 0.07 μ V Dynamic Range 130 dB
MC CARTRIDGE INPUT
$\begin{array}{llllllllllllllllllllllllllllllllllll$
CD, AUX. INPUT
Input Impedance 25 k ohms Input Sensitivity 150 mV Frequency Response 10 Hz ~ 70 kHz Signal to Noise Ratio (A weighted) 98 dB
OUTPUT VOLTAGE
Tape Out [PHONO (MM) 7.75 mV 1 kHz Input] 465 mV Preamplifier Output [AUX, 150 mV 1 kHz Input] 1.5 V
OUTPUT IMPEDANCE
Tape Out (at Phono Position)220 ohmsPreamplifier Output220 ohms
GENERAL
Power Requirements (E Version)
Panel Width



NOTE ON SAFETY :

Symbol \triangle Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol \triangle . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.



MC-L CH MC-R CH

HONO SELECT FUNCTION TAPE MONITOR Ω (B) Ω (B)

 Ω (B)

 Ω (B) Ω (B)

SERVICE INFORMATION IS FOR USE BY QUALIFIED RERSONNEL ONLY — ANY MISADJUSTMENT OR MISALIGNMENT MAY BE TREATED AS A NON-WARRANTY REPAIR BY ANY MARANTZ SERVICE CENTRE - "

Kind of Common Parts

RESISTOR

 R^{***} (1) GD05 - - - 140, Carbon film fixed resistor, $\pm 5\%$ 1/4W R^{***} (2) GD05 - - 160, Carbon film fixed resistor, $\pm 5\%$ 1/6W

C*** : CERAMIC CAP.

(1) DD1 ---- 370, Ceramic condenser,

disc type (titan condenser) Temp. coeff. P350 ~ N1000 50V

Temp. chara. 2B4 50V

C*** : CERAMIC CAP.

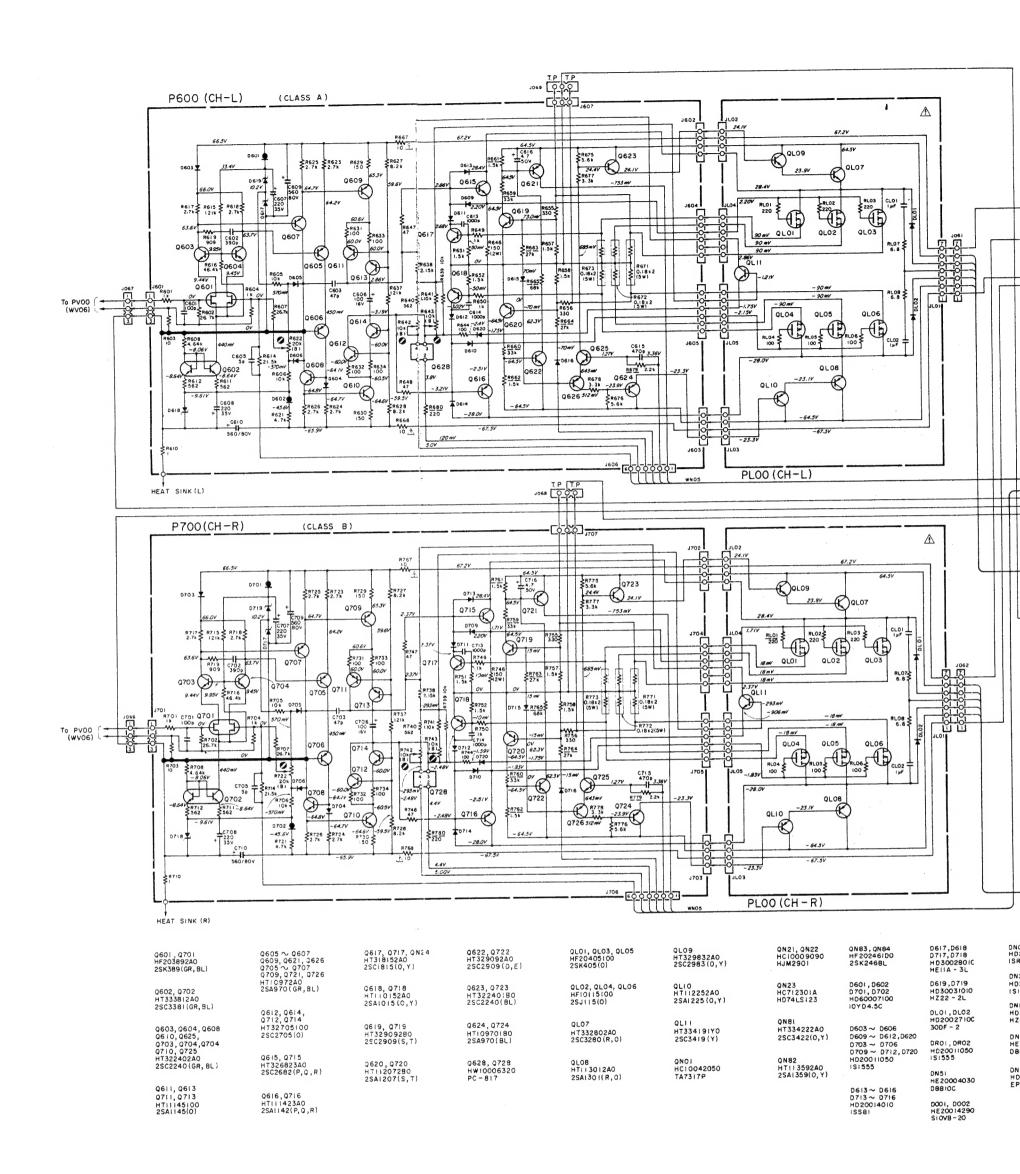
(1) DK16 --- 300, High dielectric constant ceramic condenser, disc type (titan variable)

C*** : ELECTROLY CAP. (本)/FILM CAP. (二)

(1) EA ----- 10, Electrolytic condenser,

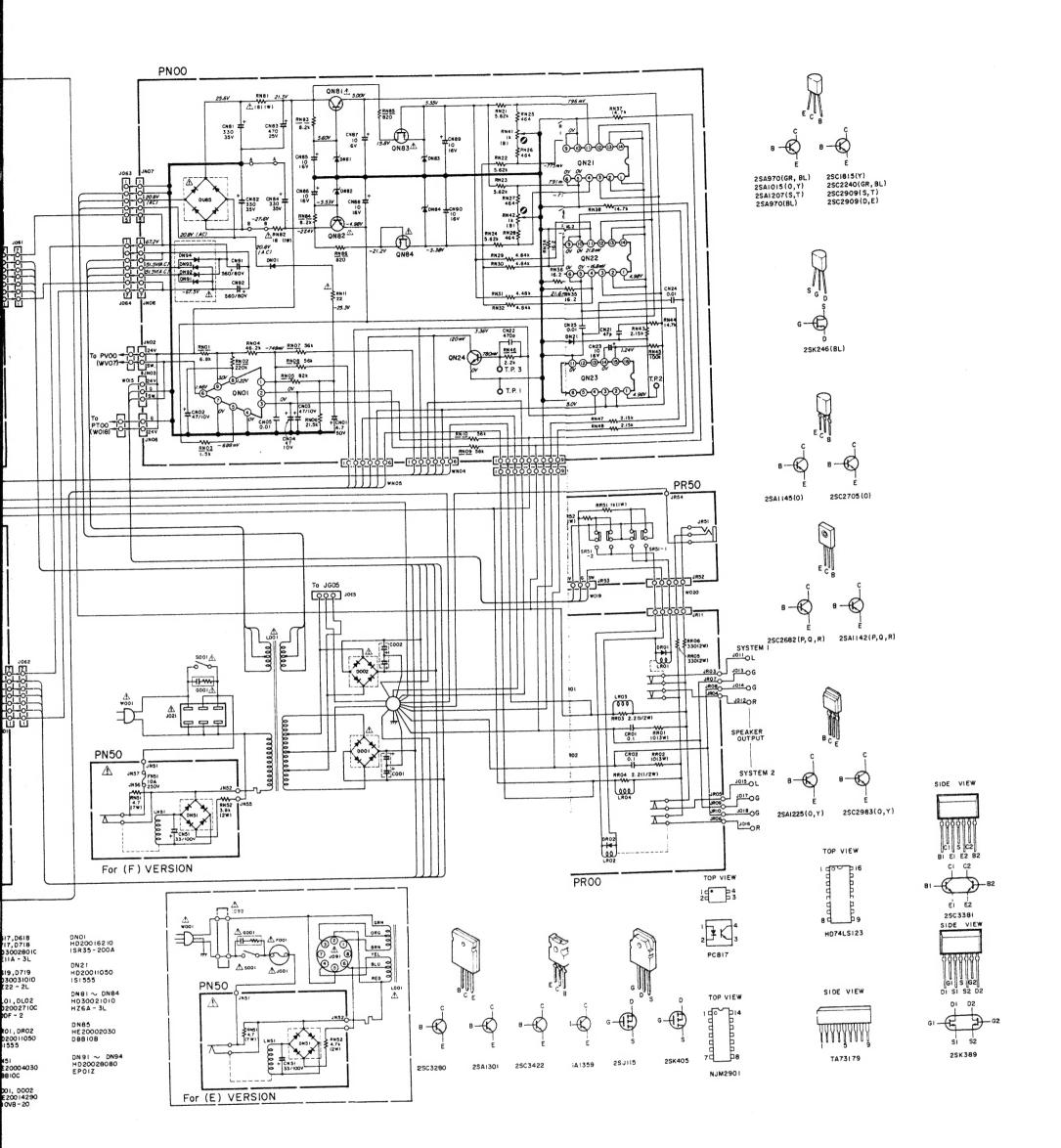
one-way lead type, tolerance ±20% (2) DF15 - - - 350, Plastic film condenser, one-way type, Mylar, ±5% 50V

*In case of ordering the common parts, please establish the correct parts number of 10 figures by the procedure "ASSIGNMENT OF COMMON PARTS CODES"



NOTE ON SAFETY:

Symbol \triangle Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol \triangle . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.



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Kind of Common Parts

RESISTOR

 R^{+***} (1) GD05 - - 140, Carbon film fixed resistor, $\pm 5\%$ 1/4W

 R^{****} (2) GD05 - - - 160, Carbon film fixed resistor, ±5% 1/6W

C*** : CERAMIC CAP.

(1) DD1 - - - 370, Ceramic condenser,

disc type (titan condenser) Temp. coeff. $P350 \sim N1000 50V$

C*** : CERAMIC CAP.

(1) DK16 --- 300, High dielectric constant ceramic condenser,

disc type (titan variable) Temp. chara. 2B4 50V

C*** : ELECTROLY CAP. (本) / FILM CAP. (二)

(1) E4-----10, Electrolytic condenser,

one-way lead type, tolerance ±20%

(2) DF15 --- 350, Plastic film condenser,

one-way type, Mylar, ±5% 50V

*In case of ordering the common parts, please establish the correct parts number of 10 figures by the procedure "ASSIGNMENT OF COMMON FARTS CODES"